SONY

4-170-094-**11**(1)

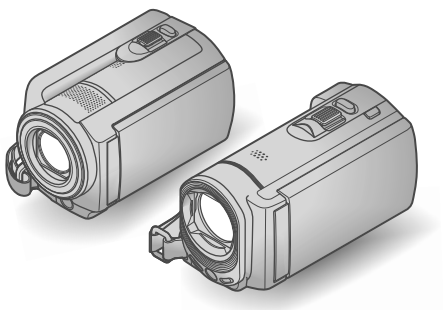



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# DCR-SR68/SR88/SX43/ SX44/SX63

Digital Video Camera Recorder

# "Handycam" Handbook

MEMORY STICK ™

InfoLITHIUM V SERIES

HANDYCAM®

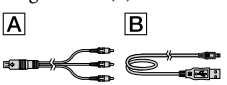
© 2010 Sony Corporation

# Read this first

## Supplied items

The numbers in ( ) are the supplied quantity.

□ AC Adaptor (1)
□ Power cord (Mains lead) (1)
□ A/V connecting cable (1) A
□ USB cable (1) B
□ Rechargeable battery pack NP-FV30 (1)
□ CD-ROM "Handycam" Application Software (1)
– "PMB" (software, including "PMB Help")
– "Handycam" Handbook (PDF)
□ "Operating Guide" (1)




• See page 18 for the memory card you can use with this camcorder.

## Using the camcorder

• Do not hold the camcorder by the following parts, and also do not hold the camcorder by the jack covers.

LCD screen



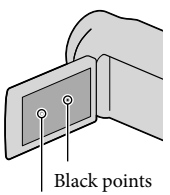
Battery pack



• The camcorder is not dustproofed, dripproofed or waterproofed. See "About handling of your camcorder" (p. 87).

## Menu items, LCD panel, and lens

• A menu item that is grayed out is not available under the current recording or playback conditions.
• The LCD screen is manufactured using extremely high-precision technology, so over 99.99% of the pixels are operational for effective use. However, there may be some tiny black points and/or bright points (white, red, blue, or green in color) that appear constantly on the LCD screen. These points are normal results of the manufacturing process and do not affect the recording in any way.




• Exposing the LCD screen or the lens to direct sunlight for long periods of time may cause malfunctions.
• Do not aim at the sun. Doing so might cause your camcorder to malfunction. Take images of the sun only in low light conditions, such as at dusk.

## About changing the language setting

• The on-screen displays in each local language are used for illustrating the operating procedures. Change the screen language before using your camcorder if necessary (p. 16).

## Recording

• When you use a memory card with your camcorder for the first time, formatting the memory card with your camcorder (p. 67) is recommended for stable operation.
All data recorded on the memory card will be deleted when it is formatted, and cannot be recovered. Save important data to your computer, etc., beforehand.
• Before starting to record, test the recording function to make sure that the image and sound are recorded without any problems.

- Compensation for the contents of recordings cannot be provided, even if recording or playback is not possible due to a malfunction of the camcorder, storage media, etc.
- TV color systems differ depending on the country/region. To view your recordings on a TV, you need an NTSC system-based TV.
- Television programs, films, video tapes, and other materials may be copyrighted. Unauthorized recording of such materials may be contrary to copyright laws.

## Note on playback

- Images recorded on your camcorder may not play correctly on other devices. Conversely, images recorded on other devices may not play correctly on this camcorder.

## Save all your recorded image data

- To prevent your image data from being lost, save all your recorded images on external media periodically. It is recommended that you save the image data on a disc such as a DVD-R using your computer. Also, you can save your image data using a VCR or a DVD/HDD recorder, etc. (p. 47).

## Notes on battery pack/AC Adaptor

- Be sure to remove the battery pack or the AC Adaptor after turning off the camcorder.
- Disconnect the AC Adaptor from the camcorder, holding both the camcorder and the DC plug.

## Note on the camcorder/battery pack temperature

- When the temperature of the camcorder or battery pack becomes extremely high or extremely low, you may not be able to record or play back on the camcorder, due to the protection features of the camcorder being activated in such situations. In this case, an indicator appears on the LCD screen (p. 76).

## When the camcorder is connected to a computer or accessories

- Do not try to format the recording media of the camcorder using a computer. If you do so, your camcorder may not operate correctly.
- When connecting your camcorder to another device with a cable, be sure to insert the connector plug in the correct way. Pushing the plug forcibly into the terminal will damage the terminal and may result in a malfunction of your camcorder.

## If you cannot record/play back images, perform [MEDIA FORMAT]

- If you repeat recording/deleting images for a long time, fragmentation of data occurs on the recording media. Images cannot be saved or recorded. In such a case, save your images on some type of external media first, and then perform [MEDIA FORMAT] by touching MENU (MENU) → [Show others] → [MEDIA FORMAT] (under [MANAGE MEDIA] category) → the desired medium (DCR-SR68/SR88/SX44/SX63) → [YES] → [YES] → OK.

## Carl Zeiss lens

- Your camcorder is equipped with a Carl Zeiss lens, which was developed jointly by Carl Zeiss, in Germany, and Sony Corporation, and produces superior images. It adopts the MTF measurement system for video cameras and offers a quality typical of a Carl Zeiss lens. MTF= Modulation Transfer Function. The number value indicates the amount of light from a subject coming into the lens.

## Notes on optional accessories

- We recommend using genuine Sony accessories.
- Availability of such products is subject to country/region.

## About images, illustrations, and screen displays of this manual

- The example images used in this manual for illustration purposes are captured using a digital still camera, and therefore may appear different from images and screen indicators that actually appear on your camcorder. And, the illustrations of your camcorder and its screen indication are exaggerated or simplified for understandability.
- In this manual, the internal hard disk (DCR-SR68/SR88), the internal memory (DCR-SX44/SX63) of your camcorder and memory card are called "recording media."
- Design and specifications of your camcorder and accessories are subject to change without notice.

## Confirm the model name of your camcorder

- The model name is shown in this manual when there is a difference in specification between models. Confirm the model name on the bottom of your camcorder.
- The main differences in specification of this series are as follows.

| | Recording media | Capacity of internal recording media | USB jack |
|---|---|---|---|
| DCR-SR68 | Internal hard disk + memory card | 80 GB | Input/output |
| DCR-SR88 | | 120 GB | |
| DCR-SX43 | Memory card | — | |
| DCR-SX44 | Internal memory + memory card | 4 GB | |
| DCR-SX63 | | 16 GB | |

## Notes on use

- Do not do any of the following, otherwise, the recording media may be damaged, recorded images may be impossible to play back or may be lost, or other malfunctions could occur.
  – Eject the memory card when the access lamp (p. 19) is lit or flashing
  – Remove the battery pack or AC Adaptor from the camcorder, or subject the camcorder to shock or vibration when the (Movie)/ (Photo) lamps (p. 15) or the access lamp (p. 19) are lit or flashing
- When using a shoulder belt (sold separately), do not crash the camcorder against an object.
- Do not use your camcorder in very loud areas.

## On the drop sensor (DCR-SR68/SR88)

- To protect the internal hard disk from shock by dropping, the camcorder has a drop sensor function (p. 70). When a drop occurs, or under a non-gravity condition, the block noise made when this function is activated by the camcorder may also be recorded. If the drop sensor catches a drop repeatedly, recording/playback may be stopped.

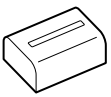
## Note on using the camcorder at high altitudes (DCR-SR68/SR88)

- Do not turn on the camcorder in a low-pressure area, where the altitude is more than 5,000 meters (16,000 feet). Doing so may damage the internal hard disk drive of your camcorder.

# Operation flow

## Getting started (p. 11)

Prepare the power source and memory card.



## Recording movies and photos (p. 20)

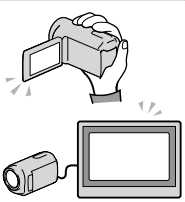
Recording movies ➡ p. 22
- Changing the recording mode (p. 25)
- Expected recording time (MEDIA INFO, p. 67)

Shooting photos ➡ p. 23



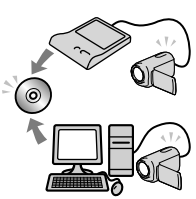
## Playing movies and photos

Playback on the camcorder ➡ p. 27
Playing images on a TV ➡ p. 33



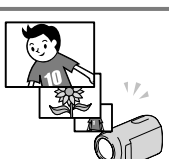
## Saving images

Saving movies and photos with a computer
Saving movies and photos in external media ➡ p. 45
Saving images with a DVD writer/recorder ➡ p. 47



## Deleting movies and photos (p. 36)

If you delete the image data that has been saved on your computer or a disc, you can record new images on the free media space again.



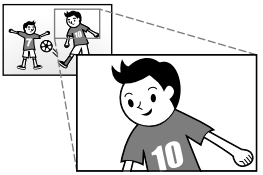
# Advice for successful recording

## ■ To get good results in recording



### ★ Stabilizing your camcorder

When you hold the camcorder, keep your upper body upright, and hold your arms close to your body.
The SteadyShot function is effective against camera-shake, however, it is essential that you not move the camcorder.



### ★ Zooming smoothly

Zoom in and out slowly and smoothly. And, use zooming sparingly. Excessive zooming will make movies that may make the viewer feel tired when viewing them.



### ★ Evoking a feeling of spaciousness

Use the panning technique. Stabilize yourself, move your camcorder horizontally as you turn your upper body slowly. Stay still at the end of panning for a while to make the scene look stable.



### ★ Accentuating movies with narration

Consider the sound to be recorded with your movies. Narrate the subject, or talk to the subject during shooting.
Aim for a balanced volume of voices, since the recording person is closer to the microphone than the recorded person.



### ★ Using accessories

Make good use of camcorder accessories.
For example, using a tripod, you can make a time-lapse recording or record subjects in dim light, such as scenes of fireworks, or night views. By always carrying spare batteries, you can continue recording without worrying about battery power shortages.

■ Useful recording techniques

**Flowers in close-up**
PORTRAIT (58)
TELE MACRO (61)

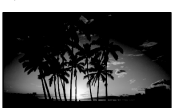


**Recording in a dimly-lit room**
VIDEO LIGHT (26)



**Capturing fireworks, or a sunset in all its splendor**
FIREWORKS (58)
SUNRISE&SUNSET (58)





**Checking your golf swing**
SPORTS (58)



**Focusing on the child on the left side of the screen**
SPOT FOCUS (60)
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## Additional information

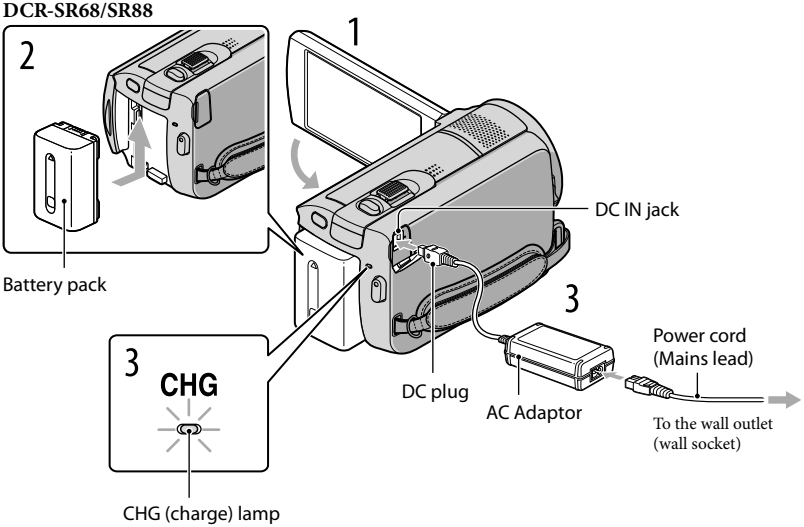

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## Quick reference

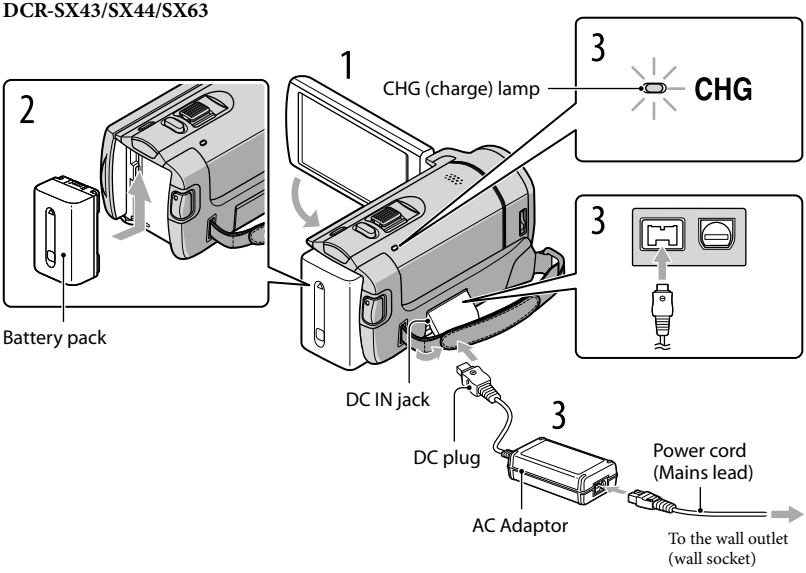

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# Step 1: Charging the battery pack

**DCR-SR68/SR88**




**DCR-SX43/SX44/SX63**



You can charge the “InfoLITHIUM” battery pack (V series) after attaching it to your camcorder.

Notes

- You cannot attach any “InfoLITHIUM” battery pack other than the V series to your camcorder.

1 Turn off your camcorder by closing the LCD screen.

2 Attach the battery pack by sliding it in the direction of the arrow until it clicks.

3 Connect the AC Adaptor and the power cord (mains lead) to your camcorder and the wall outlet (wall socket).

- Align the ▲ mark on the DC plug with that on the DC IN jack.

The CHG (charge) lamp lights up and charging starts. The CHG (charge) lamp turns off when the battery pack is fully charged.

4 When the battery is charged, disconnect the AC Adaptor from the DC IN jack of your camcorder.

Tips

- See page 80 on recording and playing time.
- When your camcorder is on, you can check the approximate amount of remaining battery power with the remaining battery indicator at the upper left on the LCD screen.

### Charging time

Approximate time (min.) required when you fully charge a fully discharged battery pack.

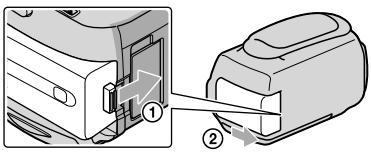
| Battery pack | Charging time |
|---|---|
| NP-FV30 (supplied) | 115 |
| NP-FV50 | 155 |
| NP-FV70 | 195 |
| NP-FV100 | 390 |

- Times measured with the camcorder at 25 °C (77 °F). 10 °C to 30 °C (50 °F to 86 °F) is recommended.

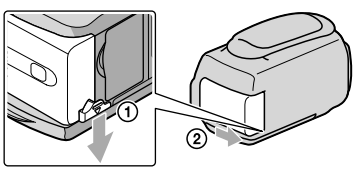
### To remove the battery pack

Close the LCD screen. Slide the BATT (battery) release lever (①) and remove the battery pack (②).

**DCR-SR68/SR88**




**DCR-SX43/SX44/SX63**




### To use a wall outlet (wall socket) as a power source

Make the same connections as "Step 1: Charging the battery pack." Even if the battery pack is attached, the battery pack is not discharged.

### Charging the battery pack abroad

You can charge the battery pack in any countries/regions using the AC Adaptor supplied with your camcorder within the AC 100 V - 240 V, 50 Hz/60 Hz range.

Notes

- Do not use an electronic voltage transformer.

### Notes on the battery pack

- When you remove the battery pack or disconnect the AC Adaptor, close the LCD screen and make sure that the (Movie)/ (Photo) lamps (p. 15), the access lamp (p. 19) are turned off.
- The CHG (charge) lamp flashes during charging under the following conditions:
  – The battery pack is not attached correctly.
  – The battery pack is damaged.
  – The temperature of the battery pack is low.
  Remove the battery pack from your camcorder and put it in a warm place.
  – The temperature of the battery pack is high.
  Remove the battery pack from your camcorder and put it in a cool place.
- In the default setting, the power turns off automatically if you leave your camcorder without any operation for about 5 minutes, to save battery power ([A.SHUT OFF], p. 70).

## Notes on the AC Adaptor

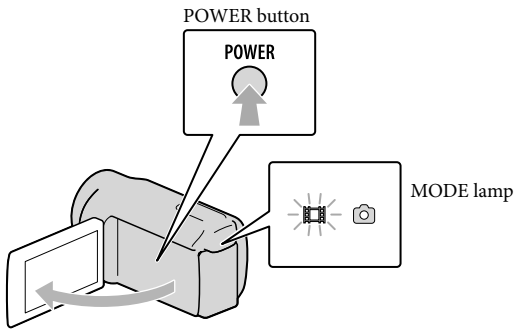
- Use the nearby wall outlet (wall socket) when using the AC Adaptor. Disconnect the AC Adaptor from the wall outlet (wall socket) immediately if any malfunction occurs while using your camcorder.
- Do not use the AC Adaptor placed in a narrow space, such as between a wall and furniture.
- Do not short-circuit the DC plug of the AC Adaptor or battery terminal with any metallic objects. This may cause a malfunction.

# Step 2: Turning the power on, and setting the date and time

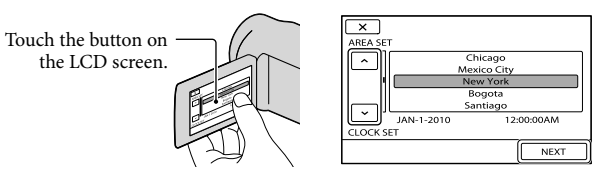
## 1 Open the LCD screen of your camcorder.

Your camcorder turns on.

- To turn on your camcorder when the LCD screen is open, press POWER.




## 2 Select the desired geographical area with ^/v, then touch [NEXT].

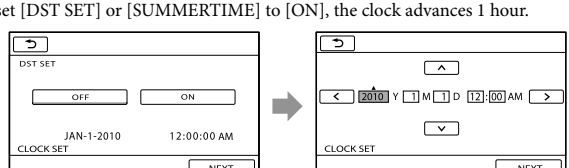



- To set the date and time again, touch MENU (MENU) → [Show others] → [CLOCK/LANG] (under [GENERAL SET] category) → [CLOCK SET]. When an item is not on the screen, touch ^/v until the item appears.

## 3 Set [DST SET] or [SUMMERTIME], date and time, then touch OK.

The clock starts.

- If you set [DST SET] or [SUMMERTIME] to [ON], the clock advances 1 hour.



Notes

- The date and time do not appear during recording, but they are automatically recorded on the recording media, and can be displayed during playback. To display the date and time, touch MENU (MENU) → [Show others] → [PLAYBACK SET] (under [PLAYBACK] category) → [DATA CODE] → [DATE/TIME] → OK → ⮌ → ✕.
- You can turn off the operation beeps by touching MENU (MENU) → [Show others] → [SOUND/DISP SET] (under [GENERAL SET] category) → [BEEP] → [OFF] → OK → ⮌ → ✕.
- If the button you touch does not react correctly, calibrate the touch panel (p. 89).

### To turn off the power

Close the LCD screen. The (Movie) lamp flashes for a few seconds and the power is turned off.

Tips

- You can turn off your camcorder also by pressing POWER.
- When [POWER ON BY LCD] (p. 70) is set to [OFF], turn off your camcorder by pressing POWER.

## Changing the language setting

You can change the on-screen displays to show messages in a specified language.
Touch MENU (MENU) → [Show others] → [CLOCK/LANG] (under [GENERAL SET] category) → [LANGUAGE SET] → a desired language → OK → ⮌ → ✕.

# Step 3: Preparing the recording media

The recording media that can be used differs depending on your camcorder. The following icons are displayed on the screen of your camcorder.

DCR-SX43:



Memory card

DCR-SX44/SX63:


*

Internal memory



Memory card

DCR-SR68/SR88:


*

Internal hard disk



Memory card

* In the default setting, both movies and photos are recorded on this recording media. You can perform recording, playback and editing operations on the selected medium.

Tips

- See page 81 for the recordable time of movies.
- See page 81 for the number of recordable photos.

## Selecting the recording media for movies (DCR-SR68/SR88/SX44/SX63)

1 Touch MENU (MENU) → [Show others] → [MEDIA SETTINGS] (under [MANAGE MEDIA] category) → [MOVIE MEDIA SET].

The [MOVIE MEDIA SET] screen appears.

2 Touch the desired recording media.

3 Touch [YES] → OK.

The recording medium is changed.

## Selecting the recording media for photos (DCR-SR68/SR88/SX44/SX63)

1 Touch MENU (MENU) → [Show others] → [MEDIA SETTINGS] (under [MANAGE MEDIA] category) → [PHOTO MEDIA SET].

The [PHOTO MEDIA SET] screen appears.

2 Touch the desired recording media.

3 Touch [YES] → OK.

The recording medium is changed.

### To check the recording media settings

When recording in movie recording mode or photo recording mode, the recording media icon is displayed in the top right corner of the screen.




Recording media icon

- The icon displayed on the LCD screen varies depending on the camcorder you use.

## Inserting a memory card

Notes

- Set the recording medium to [MEMORY CARD] to record movies and/or photos on memory card (DCR-SR68/SR88/SX44/SX63).

### Types of memory card that can be used with your camcorder

- Only "Memory Stick PRO Duo" media, "Memory Stick PRO-HG Duo" media, SD memory cards and SDHC memory cards can be used with this camcorder. A MultiMediaCard cannot be used with this camcorder.
- In this manual, "Memory Stick PRO Duo" media and "Memory Stick PRO-HG Duo" media are referred to as "Memory Stick PRO Duo" media.
- Memory cards of up to 32 GB are guaranteed to work with your camcorder.

### Types of "Memory Stick" media that can be used with your camcorder

- For recording movies, it is recommended that you use "Memory Stick PRO Duo" media of 512 MB or larger marked with:
  - – MEMORY STICK PRO DUO ("Memory Stick PRO Duo" media)*
  - – MEMORY STICK PRO-HG DUO ("Memory Stick PRO-HG Duo" media)

  * Marked with Mark2 or not, either can be used.

"Memory Stick PRO Duo" media/"Memory Stick PRO-HG Duo" media
(This size can be used with your camcorder.)

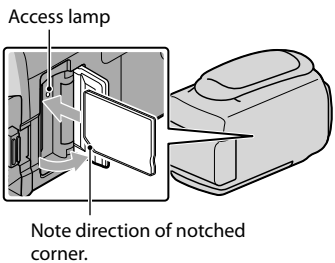



- "Memory Stick PRO Duo" media can be used only with "Memory Stick PRO" media compatible equipment.
- Do not attach a label or the like on "Memory Stick PRO Duo" media or "Memory Stick Duo" media adaptor.

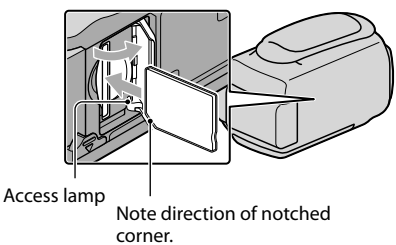
Open the cover, orient the memory card's notched corner as shown in the illustration, and insert into the memory card slot until it clicks.

- Close the cover after inserting the memory card.

**DCR-SR68/SR88**




**DCR-SX43/SX44/SX63**




The [Create a new Image Database File.] screen may appear if you insert a new memory card. In that case, touch [YES]. If you record only photos on the memory card, touch [NO].

- Confirm the direction of the memory card. If you forcibly insert the memory card in the wrong direction, the memory card, memory card slot, or image data may be damaged.

Notes

- If [Failed to create a new Image Database File. It may be possible that there is not enough free space.] is displayed, initialize the memory card by touching MENU (MENU) → [Show others] → [MEDIA FORMAT] (under [MANAGE MEDIA] category) → [MEMORY CARD] (DCR-SR68/SR88/SX44/SX63) → [YES] → [YES] → OK.

### To eject the memory card

Open the cover and lightly push the memory card in once.

- Do not open the cover during recording.
- When inserting or ejecting the memory card, be careful so that the memory card does not pop out and drop.

# Recording

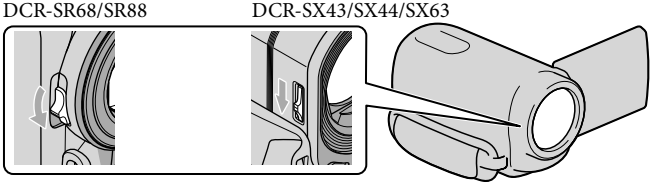
In the default setting, movies are recorded on the following recording media.
DCR-SX43: Memory card
DCR-SX44/SX63: Internal memory
DCR-SR68/SR88: Internal hard disk

Tips
• See page 17 on changing the recording media (DCR-SR68/SR88/SX44/SX63).

### To open the lens cover

Slide the LENS COVER switch to open.

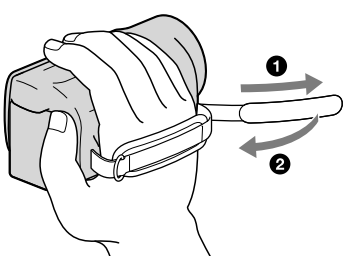
DCR-SR68/SR88 DCR-SX43/SX44/SX63



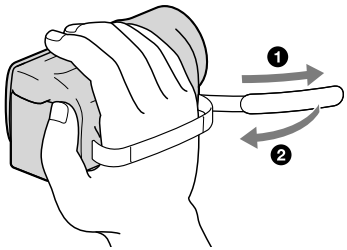
Tips
• When you finish recording or when you play back images, close the lens cover.

## 1 Fasten the grip belt.

**DCR-SR68/SR88**



**DCR-SX43/SX44/SX63**

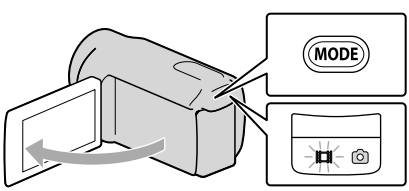



## 2 Open the LCD screen of your camcorder.

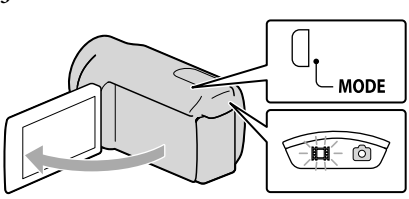
Your camcorder turns on.

- To turn on your camcorder when the LCD screen is already open, press POWER (p. 15).
- You can switch recording modes by pressing MODE. Press MODE to light up the desired recording mode lamp.

**DCR-SR68/SR88**



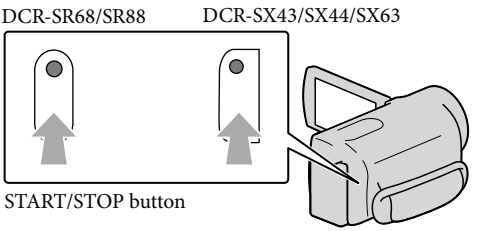

**DCR-SX43/SX44/SX63**

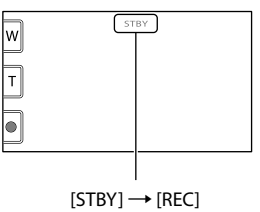


## Recording movies

### Press START/STOP to start recording.

- You can start recording also by touching ● in the bottom left of the LCD screen.



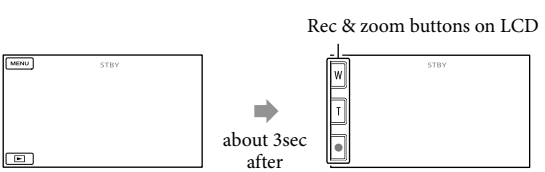




To stop recording, press START/STOP again.

- You can stop recording also by touching ● in the bottom left of LCD screen.

---

- The icons and indicators on the LCD panel will be displayed for about 3 seconds, then disappear after turning on your camcorder or switching the recording (movie/photo)/playback modes. To display the icons and indicators again, touch anywhere on the screen except the rec & zoom buttons on the LCD.



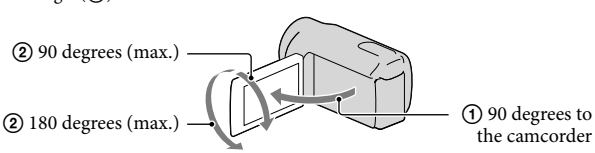

### Notes

- If you close the LCD screen while recording movies, the camcorder stops recording.
- The maximum continuous recordable time of movies is about 13 hours.
- When a movie file exceeds 2 GB, the next movie file is created automatically.
- It will take several seconds until you can start recording after you turn on the camcorder. You cannot operate your camcorder during this time.

- The following states will be indicated if data is still being written onto the recording media after recording has finished. During this time, do not apply shock or vibration to the camcorder, or remove the battery or AC Adaptor.
  – Access lamp (p. 19) is lit or flashing
  – The media icon in the upper right of the LCD screen is flashing

Tips

- When a face is detected, a white frame appears and the image quality around the face is optimized automatically ([FACE DETECTION], p. 62).
- You can capture photos from recorded movies (p. 40).
- See page 80 on the recordable time of movies.
- You can check the recordable time, estimated remaining capacity, etc., by touching MENU (MENU) → [Show others] → [MEDIA INFO] (under [MANAGE MEDIA] category).
- The LCD screen of your camcorder can display recording images across the entire screen (full pixel display). However, this may cause slight trimming of the top, bottom, right and left edges of images when played back on a TV which is not compatible with full pixel display. In this case, set [GUIDEFRAME] to [ON] (p. 62), and record images using the outer frame displayed on the screen as a guide.
- [STEADYSHOT] is set to [ON] in the default setting.
- To adjust the angle of the LCD panel, first open the LCD panel 90 degrees to the camcorder (①), and then adjust the angle (②).




### Data code during recording

The recording date, time and condition are recorded automatically on the recording media. They are not displayed during recording. However, you can check them as [DATA CODE] during playback. To display them, touch MENU (MENU) → [Show others] → [PLAYBACK SET] (under [PLAYBACK] category) → a desired setting → OK → ⮌ → ✕.

## Shooting photos

In the default setting, photos are recorded on the following recording media.
DCR-SX43: Memory card
DCR-SX44/SX63: Internal memory
DCR-SR68/SR88: Internal hard disk

Tips

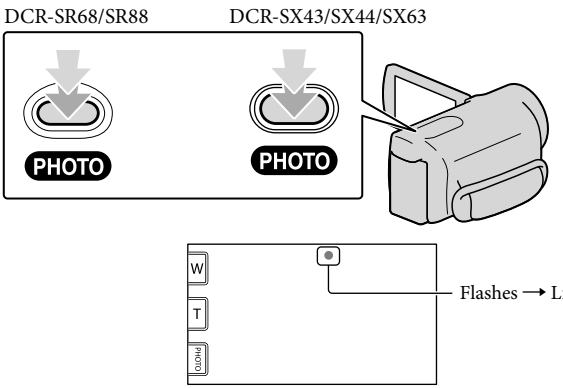
- See page 17 on changing the recording media (DCR-SR68/SR88/SX44/SX63).

## 1 Press MODE to turn on the (Photo) lamp.

The LCD screen display switches for photo recording mode, and the screen aspect ratio becomes 4:3.

## 2 Press PHOTO lightly to adjust the focus, then press it fully.

- You can record photos also by touching PHOTO on the LCD screen.




When disappears, the photo is recorded.

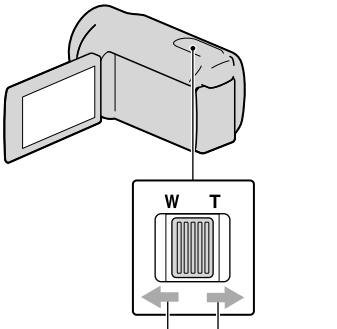
Tips

- See page 81 on the recordable number of photos.
- To change the image size, touch MENU (MENU) → [Show others] → [IMAGE SIZE] (under [PHOTO SETTINGS] category) → a desired setting → OK → .

# Useful functions for recording movies and photos

## Zooming

You can magnify images up to 60 times the original size with the power zoom lever. You can magnify images also with the W/T on the LCD screen.




Wider range of view (Wide angle)

Close view (Telephoto)

Move the power zoom lever slightly for a slower zoom. Move it further for a faster zoom.

Notes

- SteadyShot may not reduce image blurring as desired when the power zoom lever is set to the T (Telephoto) side.
- Be sure to keep your finger on the power zoom lever. If you move your finger off the power zoom lever, the operation sound of the power zoom lever may also be recorded.
- You cannot change the zoom speed with the W/T button on the LCD screen.
- The minimum possible distance between camcorder and subject while maintaining sharp focus is about 1 cm (about 13/32 in.) for wide angle and about 150 cm (about 59 1/8 in.) for telephoto.

Tips

- You can set [DIGITAL ZOOM] (p. 63) if you want to zoom to a greater level.

## Selecting the recording mode

You can select a recording mode to record movies from 3 levels. The recording time of the media may change, depending on the recording mode. In the default setting, [REC MODE] is set to [SP].

LP SP HQ

Long time recording — High quality recording

**1** Touch MENU (MENU) → [Show others] → [REC MODE] (under [SHOOTING SET] category).

**2** Touch a desired setting.

If you want to record high quality images, select the HQ mode, or if you want to record longer movies, select the LP mode.

**3** Touch OK → ×.

Notes

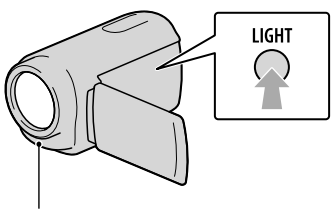
- Movies are recorded with MPEG-2 format.
- You can select from the following image qualities. Value such as “9M” is an average bit-rate, and “M” means “Mbps.”
  - [HQ] (9M (HQ))
  - [SP] (6M (SP))(the default setting)
  - [LP](3M (LP))
- If you record in the LP mode, the quality of movies may be degraded, or scenes with quick movements may appear with block noise when you play back the image.

Tips

- You can select the [REC MODE] for each recording media separately (DCR-SR68/SR88/SX44/SX63).

## Using the VIDEO LIGHT

You can use the VIDEO LIGHT according to the recording conditions. It is recommended that you use the VIDEO LIGHT at a distance of about 30 cm to 150 cm (11 7/8 in. to 59 1/8 in.) from the subject.




LED VIDEO LIGHT

Each time you press LIGHT, the indicator changes as follows.

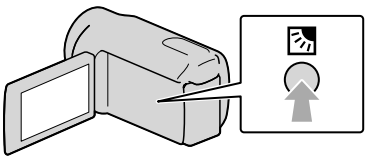
No indicator (Off) → AUTO (Auto) → (On) → ...

Press LIGHT repeatedly to cancel the VIDEO LIGHT.

Notes

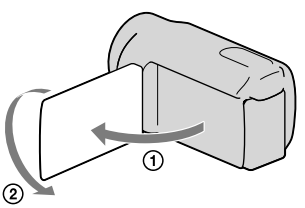
- The VIDEO LIGHT generates strong light. Do not use the VIDEO LIGHT directly in front of the eyes at close range.
- The length of time you can use the battery pack is shorter when you use the VIDEO LIGHT.
- When you record movies with the VIDEO LIGHT set to AUTO, the video light may turn on and off. In this case, press LIGHT repeatedly to select .

## Adjusting the exposure for backlit subjects



To adjust the exposure for backlit subjects, press (backlight) to display . To cancel the back light function, press (backlight) again.

## Recording in mirror mode




Open the LCD panel 90 degrees to the camcorder (①), then rotate it 180 degrees to the lens side (②).

Tips

- A mirror-image of the subject appears on the LCD screen, but the image will be normal when recorded.

# Playback on the camcorder

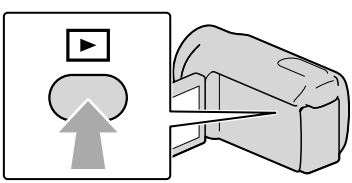
In the default setting, movies and photos that are recorded on the following recording media are played.
DCR-SX43: Memory card
DCR-SX44/SX63: Internal memory
DCR-SR68/SR88: Internal hard disk

Tips
- See page 17 on changing the recording media (DCR-SR68/SR88/SX44/SX63).

## 1 Open the LCD screen of your camcorder.

Your camcorder turns on.
- To turn on your camcorder when the LCD screen is already open, press POWER (p. 15).

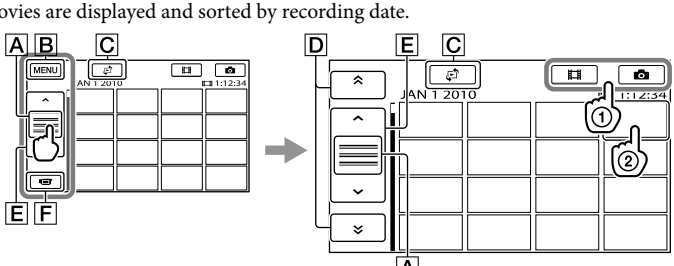
## 2 Press (VIEW IMAGES).



The VISUAL INDEX screen appears after some seconds.
- You can display the VISUAL INDEX screen also by touching (VIEW IMAGES) on the LCD screen.

## 3 Touch (Movie) (①) → a desired movie (②) to play back a movie. Touch the (Photo) (①) → a desired photo (②) to view a photo.

Movies are displayed and sorted by recording date.




A Switches operating button display.
B To MENU screen

C Displays the screen to select the index type ([DATE INDEX]/[FILM ROLL]/[FACE]) (p. 30, 30, 31).

D / : Displays movies recorded on the previous/next date.*

E / : Displays the previous/next movie.

F Returns to the recording screen.

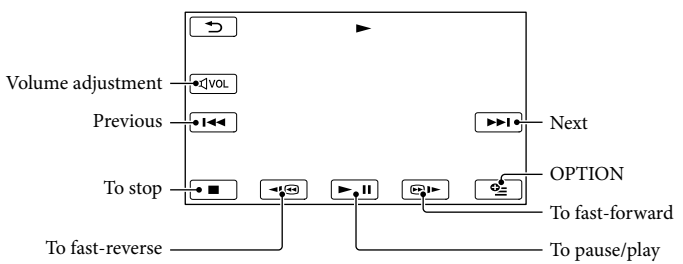
* D is displayed when A is touched.

- You can scroll the display by touching and dragging D or E.
- I▶I appears with the movie or photo that was most recently played or recorded. If you touch the movie or photo with I▶I, you can continue playback from the previous time. (▶ appears on the photo recorded on a memory card.)

---

## Playing movies

Your camcorder starts playing the selected movie.




Tips

- When playback from the selected movie reaches the last movie, the screen returns to the VISUAL INDEX screen.
- Touch / during pause to play back movies slowly.
- As you repeat touching / during playback, movies are played as fast as about 5 times → about 10 times → about 30 times → about 60 times.
- You can display the VISUAL INDEX by touching MENU (MENU) → [Show others] → [VISUAL INDEX] (under [PLAYBACK] category).
- The recording date, time, and shooting conditions are recorded automatically during recording. This information is not displayed during recording, but you can display it during playback by touching MENU (MENU) → [Show others] → [PLAYBACK SET] (under [PLAYBACK] category) → [DATA CODE] → a desired setting → OK → → .

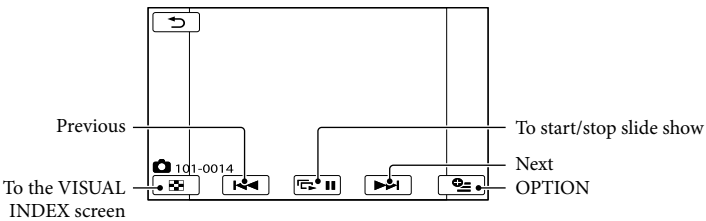
## To adjust the sound volume of movies

While playing back movies, touch VOL → adjust with / → .

- You can also adjust the sound volume by using / in the OPTION MENU.

## Viewing photos

Your camcorder displays the selected photo.




### Tips

- When viewing photos recorded on a memory card, 101 ▸ (playback folder) appears on the screen.

# Useful functions for playing movies and photos

## Searching for desired images by date (Date Index)

You can search for desired images by date efficiently.

Notes

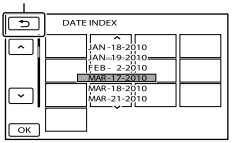
- You cannot use the Date Index function for photos on the memory card.

**1** Press (VIEW IMAGES).

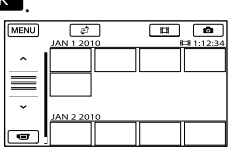
The VISUAL INDEX screen appears.

**2** Touch → [DATE INDEX].

Returns to the VISUAL INDEX screen




**3** Touch / to select the date of the desired image, then touch OK.




The images of the selected date are displayed on the VISUAL INDEX screen.

Tips

- You can also display Date Index by touching MENU (MENU) → [Show others] → [VIEW IMAGES] (under [PLAYBACK] category) → [DATE INDEX].
- On the [Film Roll Index]/[Face Index] screen, you can display the Date Index by touching the date in the upper right corner of the screen.

## Searching for desired scene by pinpoint (Film Roll Index)

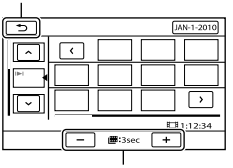
Movies can be divided by a set time and the first scene of each division is displayed on the INDEX screen. You can start playing back a movie from the selected thumbnail.

**1** Press (VIEW IMAGES).

The VISUAL INDEX screen appears.

**2** Touch → [FILM ROLL].

Returns to the VISUAL INDEX screen




Sets the interval at which to create thumbnails of scenes in a movie.

**3** Touch / to select the desired movie.

**4** Touch / to search for the desired scene, then touch the scene you want to play back.

Playback starts from the selected scene.

Tips

- You can also display the Film Roll Index by touching MENU (MENU) → [Show others] → [VIEW IMAGES] (under [PLAYBACK] category) → [FILM ROLL].

## Searching for desired scene by face (Face Index)

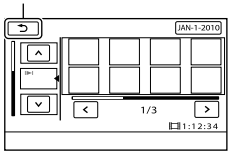
The face images detected during movie recording are displayed on the INDEX screen.
You can play back the movie from the selected face image.

**1** Press (VIEW IMAGES).

The VISUAL INDEX screen appears.

**2** Touch → [FACE].

Returns to the VISUAL INDEX screen




**3** Touch / to select the desired movie.

**4** Touch / to search for the desired face image, then touch the desired face image to view the scene.

Playback starts from the beginning of the scene with the selected face image.

Notes

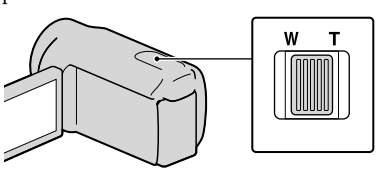
- Faces may not be detected depending on recording conditions.
  Example: People wearing glasses or hats, or who do not face towards the camera.
- Make sure that you set [FACE DETECTION] to [ON] (p. 62) (the default setting) prior to recording, to search movies on the Face Index.

Tips

- You can also display the Face Index by touching MENU (MENU) → [Show others] → [VIEW IMAGES] (under [PLAYBACK] category) → [FACE].

## Using PB zoom with photos

You can magnify photos from about 1.1 to 5 times the original size.
Magnification can be adjusted with the power zoom lever.



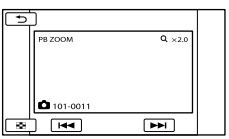

**1** Play back the photo you want to magnify.

**2** Magnify the photo with T (Telephoto).

The screen is framed.

### 3 Touch the screen at the point you want to display in the center of the displayed frame.

The point where you touched on the screen is moved to the center of the display frame.




### 4 Adjust the magnification with W (Wide angle)/T (Telephoto).

To cancel, touch .

## Playing back a series of photos (Slide show)

### Touch on the photo playback screen.

The slide show begins from the selected photo.

### To stop the slide show

Touch .

### To restart the slide show

Touch again.

**Notes**

- You cannot operate playback zoom during slide show.

**Tips**

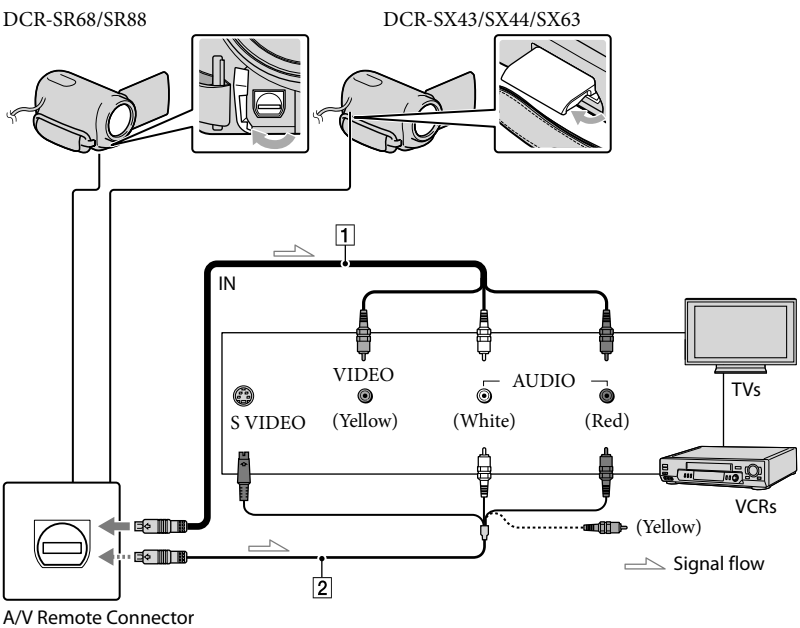
- You can set continuous slide show playback by selecting (OPTION) → tab → [SLIDE SHOW SET] while playing photos. The default setting is [ON] (continuous playback).

# Playing images on a TV

Connect your camcorder to the input jack of a TV or VCR using the A/V connecting cable 1 or an A/V connecting cable with S VIDEO 2. Connect your camcorder to the wall outlet (wall socket) using the supplied AC Adaptor for this operation (p. 14). Refer also to the instruction manuals supplied with the devices to be connected.

1 A/V connecting cable (supplied)
Connecting to another device via the A/V Remote Connector using an A/V connecting cable.

2 A/V connecting cable with S VIDEO (sold separately)
When connecting to another device via the S VIDEO jack, by using an A/V connecting cable with an S VIDEO cable (sold separately), higher quality images can be produced than with an A/V connecting cable. Connect the white and red plugs (left/right audio) and the S VIDEO plug (S VIDEO channel) of the A/V connecting cable with an S VIDEO cable (sold separately). The yellow plug connection is not necessary. Connecting only the S VIDEO plug will not output audio.




## 1 Set the input selector of the TV to the input your camcorder will be connected to.

For details, refer to the instruction manuals supplied with the TV.

**2** Connect your camcorder to a TV with the A/V connecting cable (1, supplied) or an A/V connecting cable with S VIDEO (2, sold separately).

Connect your camcorder to the input jack of the TV.

**3** Play back movies and photos on your camcorder (p. 27).

### To set the aspect ratio according to the connected TV (16:9/4:3)

Touch MENU (MENU) → [Show others] → [OUTPUT SETTINGS] (under [GENERAL SET] category) → [TV TYPE] → [16:9] or [4:3] → OK → ⮌ → ✕.

### When connecting to your TV via a VCR

Connect your camcorder to the LINE IN input on the VCR using the A/V connecting cable. Set the input selector on the VCR to LINE (VIDEO 1, VIDEO 2, etc.).

### When your TV is monaural (When your TV has only one audio input jack)

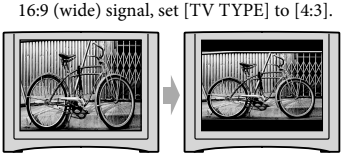
Connect the yellow plug of the A/V connecting cable to the video input jack and connect the white (left channel) or red (right channel) plug to the audio input jack of your TV or VCR.

Notes

- When you connect your camcorder to a TV compatible with the ID-1/ID-2 system, set [TV TYPE] to [16:9]. The TV switches to full mode automatically. Refer also to the instruction manuals supplied with your TV.
- When you set [TV TYPE] to [4:3], the image quality may deteriorate. Also, when the recorded image's aspect ratio switches between 16:9 (wide) and 4:3, the image may jitter.
- On some 4:3 TVs, the photos recorded in 4:3 aspect ratio may not be displayed full screen. This is not a malfunction.



- When you play back an image recorded in 16:9 (wide) aspect ratio on a 4:3 TV not compatible with the 16:9 (wide) signal, set [TV TYPE] to [4:3].



Tips

- To check information (counter, etc.) on the screen of the monitor, touch MENU (MENU) → [Show others] → [OUTPUT SETTINGS] (under [GENERAL SET] category) → [DISP OUTPUT] → [V-OUT/PANEL] → OK → ⮌ → ✕.

# Deleting movies and photos

You can free media space by deleting movies and photos from recording media.

Notes

- You cannot restore images once they are deleted. Save important movies and photos in advance.
- Do not remove the battery pack or the AC Adaptor from your camcorder while deleting the images. It may damage the recording media.
- Do not eject memory card while deleting images from the memory card.
- You cannot delete protected movies and photos. Undo the protection of the movies and photos to delete them, before you try to delete them (p. 38).
- If the deleted movie is included in the Playlist (p. 43), the movie added to the Playlist is deleted also from the Playlist.

Tips

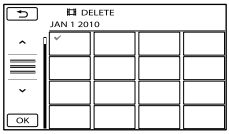
- You can delete an image on the playback screen from OPTION MENU.
- To delete all images recorded in the recording media, and recover all the recordable space of the media, format the media (p. 67).
- Reduced-size images which enable you to view many images at the same time on an index screen are called “thumbnails.”

## 1 Touch MENU (MENU) → [Show others] → [DELETE] (under [EDIT] category).

## 2 To delete movies, touch [DELETE] → [DELETE].

- To delete photos, touch [DELETE] → [DELETE].

## 3 Touch and display the ✓ mark on the movies or photos to be deleted.




- Press and hold the image down on the LCD screen to confirm the image. Touch to return to the previous screen.

## 4 Touch OK → [YES] → OK → .

### To delete all movies/photos at one time

In step 2, touch [DELETE] → [DELETE ALL] → [YES] → [YES] → OK → .

- To delete all photos at one time, touch [DELETE] → [DELETE ALL] → [YES] → [YES] → OK → .

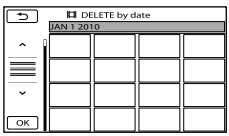
### To delete all the movies/photos recorded on the same day at one time

Notes

- You cannot delete photos on memory card by recording date.

① In step 2, touch [DELETE] → [DELETE by date].

- To delete all photos on the same day at one time, touch [DELETE] → [DELETE by date].



② Touch ⏫/⏬ to select the recording date of the desired movies/photos, then touch OK.
- Touch the image down on the LCD screen to confirm the image. Touch ⮌ to return to the previous screen.

③ Touch [YES] → OK → ✕.

# Protecting recorded movies and photos (Protect)

Protect movies and photos to avoid deleting them by mistake.

Tips

- You can protect movies and photos on the playback screen from OPTION MENU.

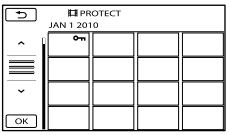
1 Touch MENU (MENU) → [Show others] → [PROTECT] (under [EDIT] category).

2 To protect movies, touch [PROTECT] → [PROTECT].

- To protect photos, touch [PROTECT] → [PROTECT].

3 Touch the movies and photos to be protected.

is displayed on the selected images.




- Press and hold the image down on the LCD screen to confirm the image. Touch to return to the previous screen.

4 Touch OK → [YES] → OK → .

### To undo the protection of movies and photos

Touch the movie or photo marked with in step 3.

disappears.

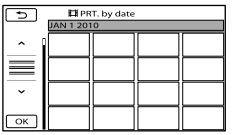
### To protect all the movies and photos recorded on the same day at one time

Note

- You cannot select [PRT. by date] for the recorded data on the memory card.

① In step 2, touch [PROTECT] → [PRT. by date].

- To protect all photos on the same day at one time, touch [PROTECT] → [PRT. by date].




② Touch / to select the recording date of the desired movies/photos, then touch OK.

- Touch the image down on the LCD screen to confirm the image. Touch to return to the previous screen.

③ Touch [PROTECT] → OK → .

### To undo the protection of movies and photos recorded on the same day at one time

In step ② above, select the recording date of the desired movies/photos, then touch OK → [UNPROTECT] → OK → .

# Dividing a movie

1 Touch MENU (MENU) → [Show others] → [DIVIDE] (under [EDIT] category).

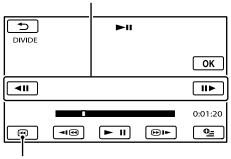
2 Touch the movie to be divided.

The selected movie starts playback.

3 Touch ▶II at the point where you want to divide the movie into scenes.

The movie pauses. Play and pause toggles as you press ▶II.

Adjusts the dividing point with more precision after you selected the dividing point with ▶II.




Returns to the beginning of the selected movie

4 Touch OK → [YES] → OK.

Notes

- You cannot restore movies once they are divided.
- You cannot divide the protected movie. Remove the protection to divide (p. 38).
- Do not remove the battery pack or the AC Adaptor from your camcorder while dividing the movie. It may damage the recording media. Also, do not eject the memory card while dividing movies on the memory card.
- A slight difference may occur from the point where you touch ▶II and the actual dividing point, as your camcorder selects the dividing point based on about half-second increments.
- If you divide the original movie, the movie added to the Playlist will also be divided.
- Only simple editing is available on the camcorder. Use the supplied software for more advanced editing.

Tips

- You can divide a movie on the playback screen from OPTION MENU.

# Capturing a photo from a movie

## 1 Touch MENU (MENU) → [Show others] → [PHOTO CAPTURE] (under [EDIT] category).

The [PHOTO CAPTURE] screen appears.

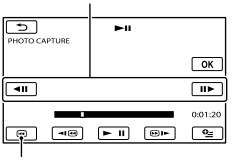
## 2 Touch the movie to be captured.

The selected movie starts playback.

## 3 Touch ► II at the point where you want to capture.

The movie pauses. Play and pause toggles as you press ► II.

Adjust the capturing point with more precision after you selected the point with ► II.




Returns to the beginning of the selected movie

## 4 Touch OK.

When capturing is finished, the screen returns to pause.

- The captured photo is saved on the recording media selected in [PHOTO MEDIA SET] (DCR-SR68/SR88/SX44/SX63) (p. 17).
- To continue capturing, touch ► II, then repeat steps from step 3.
- To capture a photo from another movie, touch ⮌, then repeat steps from step 2.

## 5 Touch ⮌ → ×.

Notes

- The image size is fixed depending on the aspect ratio of the movie:
  – [⌧0.2M] in 16:9 (wide)
  – [VGA(0.3M)] in 4:3
- The recording medium where you want to save photos should have enough free space.
- The recording date and time of captured photos is the same as the recording date and time of the movies.
- If the movie you are capturing from has no data code, the recording date and time of the photo will be the date and time you captured from the movie.

# Dubbing/copying movies and photos from the internal recording media to memory card (DCR-SR68/SR88/SX44/SX63)

## Dubbing movies

You can dub movies recorded on the internal recording media of your camcorder to memory card.
Insert memory card into your camcorder before the operation.

Notes

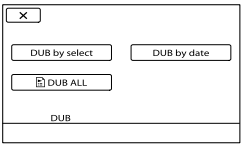
- When you record a movie on the memory card for the first time, create the image database file by touching MENU (MENU) → [Show others] → [REPAIR IMG.DB F.] (under [MANAGE MEDIA] category) → [MEMORY CARD].
- Connect your camcorder to the wall outlet (wall socket) using the supplied AC Adaptor to prevent your camcorder from running out of power during dubbing.

Tips

- The original movie will not be deleted after dubbing.
- All included images in a Playlist will be dubbed.
- The images recorded by this camcorder and stored onto the recording media are called "original."

**1** Touch MENU (MENU) → [Show others] → [MOVIE DUB] (under [EDIT] category).

The [MOVIE DUB] screen appears.

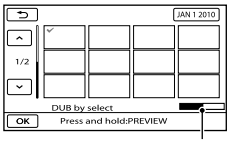



**2** Touch the type of dubbing.

[DUB by select]: To select movies and dub
[DUB by date]: To dub all movies of a specified date
[DUB ALL]: To dub the Playlist
When you select the Playlist as the source of dubbing, follow the on-screen instructions to dub the Playlist.

**3** Select the movie to be dubbed.

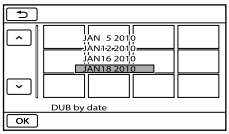
[DUB by select]: Touch the movie to be dubbed, and mark it with ✓. You can select multiple movies.




Remaining capacity of the memory card

- Press and hold the image down on the LCD screen to confirm the image. Touch to return to the previous screen.

[DUB by date]: Select the recording date of the movie to be dubbed, then touch OK. You cannot select multiple dates.




**4** Touch OK → [YES] → OK → ✕.

Tips

- To check the dubbed movies after dubbing is finished, select [MEMORY CARD] on [MOVIE MEDIA SET] and play them back (p. 17).

## Copying photos

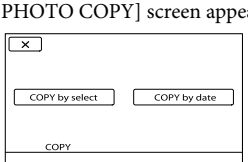
You can copy photos from the internal recording media of the camcorder to memory card.
Insert a memory card into your camcorder before the operation.

Notes

- Connect your camcorder to the wall outlet (wall socket) using the supplied AC Adaptor to prevent your camcorder from running out of power during copying.

**1** Touch MENU (MENU) → [Show others] → [PHOTO COPY] (under [EDIT] category).

The [PHOTO COPY] screen appears.

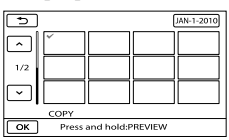



**2** Touch the type of copying.

[COPY by select]: To copy selected photos
[COPY by date]: To copy all photos of a specified date

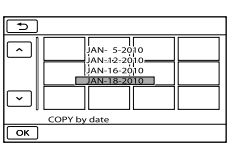
**3** Select the photo to be copied.

[COPY by select]: Touch the photo to be copied, and mark with ✔. You can select multiple photos.




- Press and hold the image down on the screen to confirm the image. Touch ⮌ to return to the previous screen.

[COPY by date]: Select the recording date of the photo to be copied, then touch OK. You cannot select multiple dates.




**4** Touch OK → [YES] → OK → ✕.

Tips

- To check the copied photos after copying is finished, select [MEMORY CARD] on [PHOTO MEDIA SET] and play them back (p. 17).

# Using the Playlist of movies

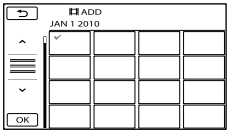
The Playlist is a list showing thumbnails of the movies that you have selected.
The original movies are not changed even if you edit or erase the movies added to the Playlist.

## Creating the Playlist

**1** Touch MENU (MENU) → [Show others] → [PLAYLIST EDIT] (under [EDIT] category).

**2** Touch [ADD].

**3** Touch the movie to be added to the Playlist.



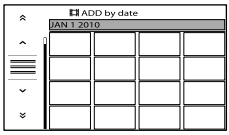

The selected movie is marked with ✓.

- Press and hold the image down on the LCD screen to confirm the image. Touch to return to the previous screen.

**4** Touch OK → [YES] → OK → .

### To add all the movies recorded on the same day at one time

① In step 2, touch [ADD by date]. The recording dates of movies are displayed on the screen.




② Touch / to select the recording date of the desired movie, then touch OK.

- Touch the image on the LCD screen to confirm the image. Touch to return to the previous screen.

③ Touch [YES] → OK → .

### Notes

- Do not remove the battery pack or the AC Adaptor from your camcorder while adding movies to the Playlist. It may damage the recording media. Also, do not eject the memory card while editing movies on the memory card.
- You cannot add photos to the Playlist.

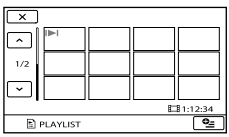
### Tips

- You can add a maximum of 99 movies to the Playlist.
- You can add a movie on the Playlist by touching (OPTION).

## Playing the Playlist

**1** Touch MENU (MENU) → [Show others] → [PLAYLIST] (under [PLAYBACK] category).

Movies added to the Playlist appear.

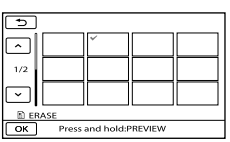


## 2 Touch the movie you want to play back.

The Playlist is played back from the selected movie to the end, then the screen returns to the Playlist screen.

### To erase unnecessary movies from the Playlist

① Touch MENU (MENU) → [Show others] → [PLAYLIST EDIT] (under [EDIT] category).
② Touch [ERASE].
To erase all the movies from the Playlist, touch [ERASE ALL] → [YES] → [YES] → OK → ✕.
③ Select the movie to be erased from the list.



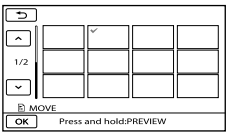

The selected movie is marked with ✓.
- Press and hold the image down on the LCD screen to confirm the image. Touch ⮌ to return to the previous screen.

④ Touch OK → [YES] → OK → ✕.

Tips
- Even if you erase a movie from a Playlist, the original movie is not deleted.

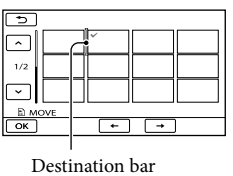
### To change the order within the Playlist

① Touch MENU (MENU) → [Show others] → [PLAYLIST EDIT] (under [EDIT] category).
② Touch [MOVE].
③ Select the movie to be moved.




The selected movie is marked with ✓.
- Touch the image on the LCD screen to confirm the image. Touch ⮌ to return to the previous screen.

④ Touch OK.
⑤ Select the destination with ←/→.




Destination bar

⑥ Touch OK → [YES] → OK → ✕.

Tips
- When you select multiple movies, the movies are moved following the order appearing in the Playlist.

# Saving images in external media (DIRECT COPY)

You can save movies and photos on external media (USB storage device), such as an external hard disk drive. You can also play back images on the camcorder or another playback device.

Notes

- For this operation, you need the USB Adaptor Cable VMC-UAM1 (sold separately).
- The USB Adaptor Cable VMC-UAM1 may not be available in some countries/regions.
- You cannot use the following devices as an external media.
  – media with a capacity exceeding 2 TB
  – ordinary disc drive such as CD or DVD drive
  – media connected via USB hub
  – media with built-in USB hub
  – card reader
- You may not be able to use external media with a code function.
- FAT file system is available for your camcorder. If the external media was formatted to NTFS file system, etc., format the external media on your camcorder before use. The format screen appears when the external media is connected to your camcorder.
- Operation is not assured with every connectable device.
- Connect your camcorder to the wall outlet (wall socket) using the supplied AC adaptor (p. 13).
- Refer to the instruction manual supplied with the external media.
- Refer to the Sony support page for your country/region for details on external media that can be used.

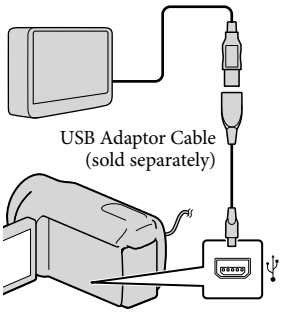
## 1 Connect the AC Adaptor and the power cord (mains lead) to the DC IN jack of your camcorder and the wall outlet (wall socket).

## 2 If the external media has the AC power cable, connect it to the wall outlet (wall socket).

## 3 Connect the USB Adaptor Cable to the external media.

## 4 Connect the USB Adaptor Cable to the ψ (USB) jack of your camcorder.

When the [Create a new Image Database File.] screen appears, touch [YES].




## 5 Touch [Copy.] on the camcorder screen.

DCR-SR68/SR88/SX44/SX63:
Movies and photos in the internal recording media of the camcorder that have not yet been saved on to external media can be saved.
DCR-SX43:
Movies and photos that have not yet been saved on to external media can be saved.

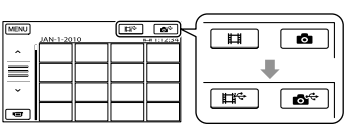
- This screen will appear only when there are newly recorded images.

6 After the operation is completed, touch OK on the camcorder screen.

Notes
- The number of scenes you can save on the external media are as follows.
  Movies: 9,999
  Photos: 9,999 frames × 899 folders
  The number of scenes may be smaller depending on the type of images recorded.

## When connecting an external media

The images saved in the external media are displayed on the LCD screen. The movie display and photo display buttons on the VISUAL INDEX screen change as illustrated below.




You can make menu settings of the external media such as deleting images. Touch MENU (MENU) → [Show others] on the VISUAL INDEX screen.

## To save desired movies and photos

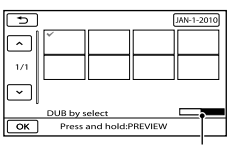
Notes
- You cannot search or copy photos recorded on memory card by recording date.

① Touch [Play without copying.] in step 5 above.
The VISUAL INDEX screen of the external media is displayed.

② Touch MENU (MENU) → [Show others] → [MOVIE DUB] (when selecting movies)/[PHOTO COPY] (when selecting photos).

③ Follow the on-screen instructions to select the recording media and image selection methods (DCR-SR68/SR88/SX44/SX63).

④ When you selected [DUB by select], touch the image to be saved.
✔ appears.
- When you selected [DUB by date], select the date of the images to be dubbed with ^ / v, then touch OK and go to step ⑤.




Remaining external media capacity

- Press and hold the image down on the LCD screen to confirm the image. Touch ⮌ to return to the previous screen.
- By touching date, you can search for images by date.

⑤ Touch OK → [YES] → OK on the camcorder screen.

## To play back images in the external media on the camcorder

① Touch [Play without copying.] in step 5 above.
The VISUAL INDEX screen of the external media is displayed.

② Play back the image (p. 27).
- You can also view images on a TV connected to your camcorder (p. 33).

Notes
- The Date Index of photos cannot be displayed.
- If your camcorder does not recognize the external media, try the following operations.
  – Reconnect the USB Adaptor Cable to your camcorder
  – If the external media has the AC power cable, connect it to the wall outlet (wall socket)

### To finish the external media connection

① Touch on the VISUAL INDEX screen of the external media.
② Disconnect the USB Adaptor Cable.

# Creating a disc with a DVD writer, recorder

## Creating a disc with the dedicated DVD writer, DVDirect Express

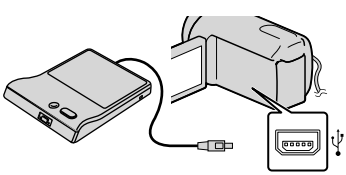
You can create a disc or play back the images on a created disc by using the dedicated DVD writer, DVDirect Express (sold separately).
Refer also to the instruction manual supplied with the DVD writer.

Notes

- Connect your camcorder to the wall outlet (wall socket) using the supplied AC Adaptor for this operation (p. 13).
- Only unused discs of the following types can be used:
  – 12cm DVD-R
  – 12cm DVD+R
- The device does not support two-layered discs.
- DVDirect Express is referred to as "DVD writer" in this section.

**1** Connect the AC Adaptor and the power cord (mains lead) to the DC IN jack of your camcorder and the wall outlet (wall socket) (p. 13).

**2** Turn on your camcorder, and connect the DVD writer to the (USB) jack of your camcorder with the USB cable of the DVD writer.



**3** Insert an unused disc into the DVD writer, and close the disc tray.

The [DISC BURN] screen appears on the camcorder screen.

**4** Press (DISC BURN) on the DVD writer.

Movies recorded on the internal recording media that have not been saved on any discs will be recorded onto the disc (DCR-SR68/SR88/SX44/SX63).

Movies that have not been saved on any discs will be recorded onto the disc (DCR-SX43).

**5** Repeat steps 3 and 4 when the total memory size of movies to be burnt exceeds that of the disc.

**6** Touch OK → [END] → [EJECT DISC] on the camcorder screen.

Remove the disc after the operation is completed.

**7** Touch OK, then disconnect the USB cable.

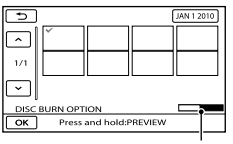
### To customize a disc with DISC BURN OPTION

Perform this operation in the following cases:

– When dubbing a desired image
– When creating multiple copies of the same disc
– When dubbing images in the memory card (DCR-SR68/SR88/SX44/SX63)

① Touch [DISC BURN OPTION] in step 4.
② Select the recording media containing the movie(s) you want to save (DCR-SR68/SR88/SX44/SX63).
③ Touch the movie you want to burn on the disc.

✔ appears.




Remaining Disc capacity

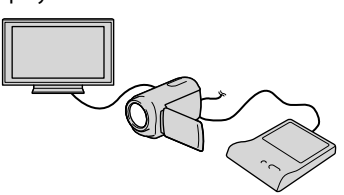
- Press and hold the image down on the LCD screen to confirm the image. Touch to return to the previous screen.
- By touching date, you can search for images by date.

④ Touch OK → [YES] on the camcorder screen.

- To create another disc of the same contents, insert a new disc and touch [CREATE SAME DISC].

⑤ After the operation is completed, touch [EXIT] → [END] on the camcorder screen.
⑥ Disconnect the USB cable from your camcorder.

### To play back a disc on the DVD writer



① Connect the AC Adaptor and the power cord (mains lead) to the DC IN jack of your camcorder and the wall outlet (wall socket) (p. 13).
② Turn on your camcorder, and connect the DVD writer to the ψ (USB) jack of your camcorder with the USB cable of the DVD writer.
  • You can play back movies on the TV screen by connecting the camcorder to a TV (p. 33).
③ Insert a created disc into the DVD writer.
  The movies on the disc appear as VISUAL INDEX on the camcorder screen.
④ Press the play button on the DVD writer.
  • You can also operate by the camcorder screen.
⑤ Touch [END] → [EJECT DISC] on the camcorder screen and remove the disc after the operation is completed.
⑥ Touch OK and disconnect the USB cable.

Notes
- Do not do any of the following when creating a disc.
  – Turn off the camcorder
  – Disconnect the USB cable or the AC adaptor
  – Subject the camcorder to mechanical shock or vibration
  – Eject the memory card from the camcorder
- Play the created disc to make sure dubbing was performed correctly before deleting the movies on your camcorder.
- If [Failed.] or [DISC BURN failed.] appears on the screen, insert another disc into the DVD writer and perform the DISC BURN operation again.

Tips
- If the total memory size of movies to be burnt by the DISC BURN operation exceeds that of the disc, disc creation stops when the limit is reached. The last movie on the disc may be cut off.
- Disc creation time to dub movies to the limit of the disc is about 20 to 60 minutes. It may take more time depending on the recording mode or the number of scenes.
- If you cannot play back created discs on any DVD player, connect the camcorder to the DVD writer, and then play back.

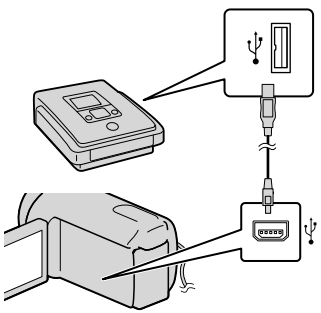
## Creating a disc with a DVD writer, etc., other than DVDirect Express

You can save movies on a disc by connecting your camcorder to disc creation devices, such as a Sony DVD writer other than DVDirect Express, with the USB cable. Refer also to the instruction manuals supplied with the devices to be connected.

Notes
- Sony DVD writer may not be available in some countries/regions.
- Connect your camcorder to the wall outlet (wall socket) using the supplied AC Adaptor for this operation (p. 13).

### 1 Connect the AC Adaptor and the power cord (mains lead) to the DC IN jack of your camcorder and the wall outlet (wall socket) (p. 13).

**2** Turn on your camcorder, and connect a DVD writer, etc. to the ⚷ (USB) jack of your camcorder with the USB cable (supplied).



The [USB SELECT] screen appears on the camcorder screen.

- If the [USB SELECT] screen does not appear, touch MENU (MENU) → [Show others] → [USB CONNECT] (under [OTHERS] category).

**3** Touch the recording media that contains the images on the camcorder screen.

[USB CONNECT]: Internal hard disk
[USB CONNECT]: Internal memory
[USB CONNECT]: Memory card

- The displayed recording media differ depending on the model.

**4** Record movies on the connected device.

- For details, refer to the instruction manuals supplied with the device to be connected.

**5** After the operation is completed, touch [END] → [YES] on the camcorder screen.

**6** Disconnect the USB cable.

## Creating a disc with a recorder, etc.

You can dub images played back on your camcorder on a disc or video cassette, by connecting your camcorder to a disc recorder, a Sony DVD writer, etc., other than DVDirect Express, with the A/V connecting cable. Connect the device in either way of 1 or 2. Refer also to the instruction manuals supplied with the devices to be connected.

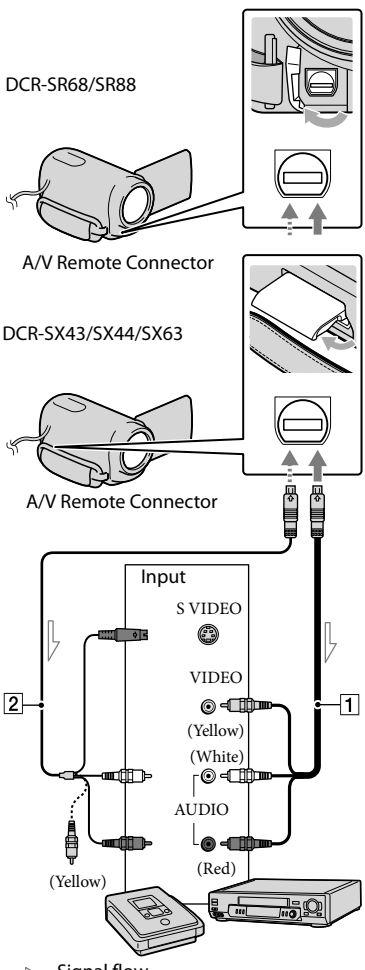
Notes

- Connect your camcorder to the wall outlet (wall socket) using the supplied AC Adaptor for this operation (p. 13).
- Sony DVD writer may not be available in some countries/regions.

1 A/V connecting cable (supplied)
Connect the A/V connecting cable to the input jack of another device.

2 A/V connecting cable with S VIDEO (sold separately)
When connecting to another device via the S VIDEO jack, by using an A/V connecting cable with an S VIDEO cable (sold separately), higher quality images can be produced than with an A/V connecting cable. Connect the white and red plug

(left/right audio) and the S VIDEO plug (S VIDEO channel) of the A/V connecting cable with an S VIDEO cable. If you connect the S VIDEO plug only, you will hear no sound. The yellow plug (video) connection is not necessary.




**1** Insert the recording media in the recording device.

- If your recording device has an input selector, set it to the input mode.

**2** Connect your camcorder to the recording device (a disc recorder, etc.) with the A/V connecting cable 1 (supplied) or an A/V connecting cable with S VIDEO 2 (sold separately).

- Connect your camcorder to the input jacks of the recording device.

**3** Start playback on your camcorder, and record it on the recording device.

- Refer to the instruction manuals supplied with your recording device for details.

**4** When dubbing is finished, stop the recording device, and then your camcorder.

Notes

- Since dubbing is performed via analog data transfer, the image quality may deteriorate.
- To hide the screen indicators (such as a counter, etc.) on the screen of the monitor device connected, touch MENU (MENU) → [Show others] → [OUTPUT SETTINGS] (under [GENERAL SET] category) → [DISP OUTPUT] → [LCD PANEL] (the default setting) → OK → ⮌ → ✕.

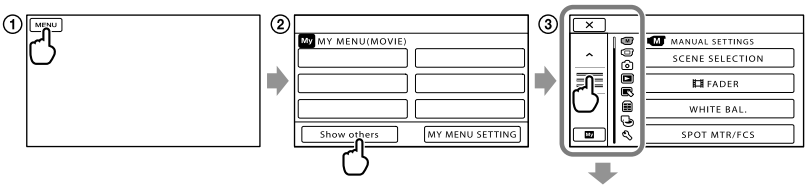
- To record the date/time or camera settings data, touch MENU (MENU) → [Show others] → [PLAYBACK SET] (under [PLAYBACK] category) → [DATA CODE] → a desired setting → OK → ↩ → ×. In addition, touch MENU (MENU) → [Show others] → [OUTPUT SETTINGS] (under [GENERAL SET] category) → [DISP OUTPUT] → [V-OUT/PANEL] → OK → ↩ → ×.
- When the screen size of display devices (TV, etc.) is 4:3, touch MENU (MENU) → [Show others] → [OUTPUT SETTINGS] (under [GENERAL SET] category) → [TV TYPE] → [4:3] → OK → ↩ → ×.
- When you connect a monaural device, connect the yellow plug of the A/V connecting cable to the video input jack, and the white (left channel) or the red (right channel) plug to the audio input jack on the device.

# Using menus

Using the menus, you can perform useful functions and change various settings. If you make good use of menu operations, you can enjoy using your camcorder.
The camcorder has various menu items under each of eight menu categories.

**MANUAL SETTINGS (Items to adjust for scene condition) → p. 58**
**SHOOTING SET (Items for customized shooting) → p. 62**
**PHOTO SETTINGS (Items for recording photos) → p. 64**
**PLAYBACK (Items for playback) → p. 65**
**EDIT (Items for editing) → p. 66**
**OTHERS (Items for other settings) → p. 66**
**MANAGE MEDIA (Items for recording media) → p. 67**
**GENERAL SET (Other setup items) → p. 68**

## Operating menus






/ : The menu list moves from category to category.
/ : The menu list moves through 4 items at once.

- You can touch buttons and drag the screen to scroll the list of the menu.
- The selected category icon is displayed in orange.
- You can return to the MY MENU screen by touching My when displayed.

① Touch MENU.
② Touch [Show others] on the MY MENU screen.
  - See the next page for details on MY MENU.
③ Touch the central part of the left side of screen to change the display.
④ Touch the menu item to be changed.
⑤ After changing the setting, touch OK.
  To finish setting the menu, touch ×.
  To return to the previous menu screen, touch ⮌.
  - OK may not be displayed depending on the menu item.

Notes

- You may not be able to set some menu items, depending on the recording or playback conditions.
- Grayed out menu items or settings are not available.

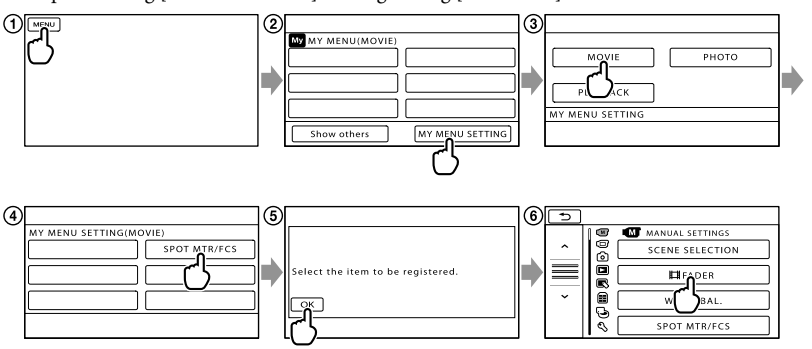
Tips

- Depending on the menu items being changed, your camcorder switches between playback mode and recording mode (movie/photo).

## Using MY MENU

You can use the menu items more easily by registering the menu items you use most often on MY MENU. You can register 6 menu items on each MY MENU of the MOVIE, PHOTO, and PLAYBACK.

Example: deleting [SPOT MTR/FCS] and registering [FADER]




① Touch MENU.
② Touch [MY MENU SETTING].
③ Touch [MOVIE].
④ Touch [SPOT MTR/FCS].
⑤ Touch OK.
⑥ Touch [FADER] (under M [MANUAL SETTINGS] category).
⑦ When MY MENU is displayed, touch ×.

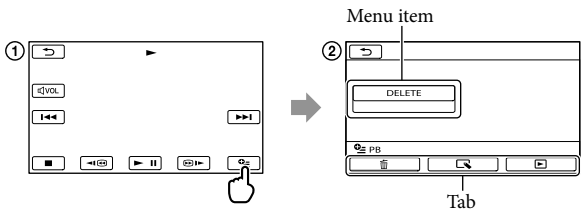
Repeat the same steps above to register menu items on MY MENU, and enjoy using your "Handycam."

Tips

- When an external storage device is connected, the exclusive MY MENU appears.

## Using the OPTION MENU

The OPTION MENU appears just like the pop-up window that appears when you right-click the mouse on a computer. When OPTION is displayed at bottom-right of the screen, you can use the OPTION MENU. You touch OPTION, and the menu items you can change in the context appear.




① Touch OPTION (OPTION).
② Touch the desired tab → the item to change the setting.
③ After completing the setting, touch OK.

Notes

- Grayed out menu items or settings are not available.
- When the item you want is not on the screen, touch another tab. (There may be no tab.)
- The tabs and items that appear on the screen depend on the recording/playback status of your camcorder at the time.

# Menu lists

## (MANUAL SETTINGS) category


- SCENE SELECTION 58
- FADER 58
- WHITE BAL. 59
- SPOT MTR/FCS 60
- SPOT METER 60
- SPOT FOCUS 60
- EXPOSURE 60
- FOCUS 61
- TELE MACRO 61


## (SHOOTING SET) category


- REC MODE 25
- GUIDEFRAME 62
- STEADYSHOT 62
- AUTO SLW SHUTTR 62
- FACE DETECTION 62
- AUDIO REC SET
  - BLT-IN ZOOM MIC 63
  - MICREF LEVEL 63
- OTHER REC SET
  - DIGITAL ZOOM 63
  - WIDE SELECT 63


## (PHOTO SETTINGS) category


- SELF-TIMER 64
- IMAGE SIZE 64
- FILE NO. 64


## (PLAYBACK) category


- VISUAL INDEX 27
- VIEW IMAGES
  - DATE INDEX 30
  - FILM ROLL 30
  - FACE 31
- PLAYLIST 43
- PLAYBACK SET
  - DATA CODE 65


## (EDIT) category


- DELETE
  - DELETE 36
  - DELETE 36
- PROTECT
  - PROTECT 38
  - PROTECT 38
- DIVIDE 39
- PHOTO CAPTURE 40
- MOVIE DUB*1*2
  - DUB by select 41
  - DUB by date 41
  - DUB ALL 41
- PHOTO COPY*1*2
  - COPY by select 42
  - COPY by date 42
- PLAYLIST EDIT
  - ADD 43
  - ADD by date 43
  - ERASE 44
  - ERASE ALL 44
  - MOVE 44


## (OTHERS) category


- USB CONNECT
  - USB CONNECT*1 49
  - USB CONNECT*2 49
  - USB CONNECT 49
  - DISC BURN Operating Guide
- BATTERY INFO 66


## (MANAGE MEDIA) category


- MEDIA SETTINGS
  - MOVIE MEDIA SET*1*2 17
  - PHOTO MEDIA SET*1*2 17
- MEDIA INFO 67
- MEDIA FORMAT
  - HDD*1 67
  - INT. MEMORY*2 67
  - MEMORY CARD*1*2 67
- REPAIR IMG.DB F.
  - HDD*1 75, 77
  - INT. MEMORY*2 75, 77
  - MEMORY CARD*1*2 75, 77

(GENERAL SET) category

| | | |
|---|---|---|
| SOUND/DISP SET | | |
| | VOLUME | 28, 68 |
| | BEEP | 68 |
| | LCD BRIGHT | 68 |
| | LCD BL LEVEL | 68 |
| | LCD COLOR | 69 |
| | DISPLAY SET | 69 |
| OUTPUT SETTINGS | | |
| | TV TYPE | 33 |
| | DISP OUTPUT | 69 |
| CLOCK/ 🄰LANG | | |
| | CLOCK SET | 15 |
| | AREA SET | 69 |
| | DST SET/SUMMERTIME | 69 |
| | 🄰LANGUAGE SET | 69 |
| POWER SETTINGS | | |
| | A.SHUT OFF | 70 |
| | POWER ON BY LCD | 70 |
| OTHER SETTINGS | | |
| | DEMO MODE | 70 |
| | CALIBRATION | 89 |
| | DROP SENSOR*1 | 70 |

*1 DCR-SR68/SR88
*2 DCR-SX44/SX63

# MANUAL SETTINGS

## (Items to adjust for scene condition)

See “Using menus” (p. 53) on the operation.
The default settings are marked with ▶.

### SCENE SELECTION

You can record images effectively in various situations.

▶ AUTO
Records images in average image quality without the [SCENE SELECTION] function.

TWILIGHT* ()
Maintains the darkening atmosphere of the distant surroundings in twilight scenes.



CANDLE ()
Maintains the dim atmosphere of a candlelit scene.



SUNRISE&SUNSET* ()
Reproduces the atmosphere of scenes such as sunsets or sunrises.



FIREWORKS* ()
Takes spectacular shots of fireworks.



LANDSCAPE*()
Shoots distant subjects clearly. This setting also prevents your camcorder from focusing on glass or metal mesh in windows between the camcorder and the subject.



PORTRAIT (Soft portrait) ()
Brings out the subject such as people or flowers while creating a soft background.



SPOTLIGHT**()
Prevents people’s faces from appearing excessively white when subjects are lit by strong light.



SPORTS** ()
Select to minimize shake when shooting fast moving subjects.



BEACH** ()
Takes the vivid blue of the ocean or a lake.



SNOW** ()
Takes bright pictures of a white landscape.



* Adjusted to focus on subjects farther away only.
** Adjusted not to focus on subjects a short distance away.

Notes
- If you set [SCENE SELECTION], [WHITE BAL.] setting is canceled.

### FADER

You can record a transition with the following effects adding to the interval between scenes.
Select the desired effect in [STBY] (to fading in) or [REC] (to fading out) mode.

▶ OFF
Does not use an effect.

### WHITE FADER

Fades in/out with the white effect.




### BLACK FADER

Fades in/out with the black effect.




To cancel the fader before starting the operation, touch [OFF].

**Tips**

- When you press START/STOP, the setting is cleared.
- A movie recorded using [BLACK FADER] may be difficult to see in the VISUAL INDEX screen.

## WHITE BAL. (White balance)

You can adjust the color balance to the brightness of the recording environment.



▶ AUTO

The white balance is adjusted automatically.

### OUTDOOR (☀)

The white balance is appropriately adjusted for the following recording conditions:

- Outdoors
- Night views, neon signs and fireworks
- Sunrise or sunset
- Under daylight fluorescent lamps

### INDOOR (💡)

The white balance is appropriately adjusted for the following recording conditions:

- Indoors
- At party scenes or studios where the lighting conditions change quickly
- Under video lamps in a studio, or under sodium lamps or incandescent-like color lamps

### ONE PUSH

The white balance will be adjusted according to the ambient light.

① Touch [ONE PUSH].

② Frame a white object such as a piece of paper, to fill the screen under the same lighting conditions as you will shoot the subject.

③ Touch [ ].

flashes quickly. When the white balance has been adjusted and stored in the memory, the indicator stops flashing.

**Notes**

- Set [WHITE BAL.] to [AUTO] or adjust the color in [ONE PUSH] under white or cool white fluorescent lamps.
- When you select [ONE PUSH], keep framing white objects while is flashing quickly.
- flashes slowly if [ONE PUSH] could not be set.
- When [ONE PUSH] was selected, if keeps flashing after touching OK, set [WHITE BAL.] to [AUTO].
- If you set [WHITE BAL.], [SCENE SELECTION] is set to [AUTO].

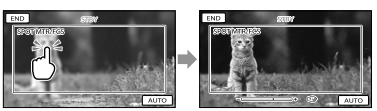
**Tips**

- If you have changed the battery pack while [AUTO] was selected, or taken your camcorder outdoors after inside use (or vice versa), aim your camcorder at a nearby white object for about 10 seconds for better color balance adjustment.
- When the white balance has been set with [ONE PUSH], if the lighting conditions changed by bringing your camcorder outdoors

from inside the house, or vice versa, you need to redo the [ONE PUSH] procedure to readjust the white balance.

## SPOT MTR/FCS (Spot meter/ focus)

You can adjust the brightness and focus for the selected subject simultaneously. This function enables you to use [SPOT METER] (p. 60) and [SPOT FOCUS] (p. 60) at the same time.




Touch the subject in the frame of which you want to adjust the brightness and focus.
To adjust the brightness and focus automatically, touch [AUTO].

Notes

- [EXPOSURE] and [FOCUS] are automatically set to [MANUAL].

## SPOT METER (Flexible spot meter)

You can adjust and fix the exposure to the subject, so that it is recorded in suitable brightness even when there is strong contrast between the subject and the background, such as subjects in the spotlight on stage.




Touch the subject in the frame of which you want to adjust the exposure.
To return the setting to automatic exposure, touch [AUTO].

Notes

- [EXPOSURE] is automatically set to [MANUAL].

## SPOT FOCUS

You can select and adjust the focal point to aim it at a subject not located at the center of the screen.



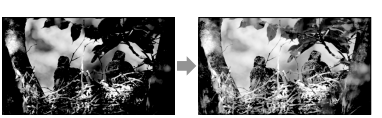

Touch the subject in the frame of which you want to adjust the focus.
To adjust the focus automatically, touch [AUTO].

Notes

- [FOCUS] is automatically set to [MANUAL].

## EXPOSURE

You can fix the brightness of a picture manually. Adjust the brightness when the subject is too bright or too dark.



Touch − / + to adjust the brightness.
To adjust the exposure automatically, touch [AUTO].

## FOCUS

You can adjust the focus manually. You can select this function also when you want to focus on a certain subject intentionally.



Touch (nearby subject)/ (distant subject) to adjust the focus.
To adjust the focus automatically, touch [AUTO].

### Notes

- When you set [FOCUS] to [MANUAL], appears.
- The minimum possible distance between camcorder and subject while maintaining sharp focus is about 1 cm (about 13/32 in.) for wide angle and about 150 cm (about 59 1/8 in.) for telephoto.

### Tips

- appears when the focus cannot be adjusted any closer, and appears when the focus cannot be adjusted farther away.
- It is easier to focus on the subject by moving the power zoom lever towards T (telephoto) to adjust the focus, then towards W (wide angle) to adjust the zoom for recording. When you want to record a subject at close range, move the power zoom lever to W (wide angle), then adjust the focus.
- The focal distance information (distance at which the subject is focused on; used as a guide if it is dark and focus adjustment is difficult) appears for a few seconds in the following cases.
  – When the focus mode is switched from automatic to manual
  – When you set focus manually

## TELE MACRO

This is useful to shoot small subjects, such as flowers or insects. You can blur out backgrounds and the subject stands out clearer.

▶ OFF
Cancels TELE MACRO. (TELE MACRO is also canceled when you move the zoom lever to the W side.)

ON ( )
The zoom (p. 25) moves to the top of the T (telephoto) side automatically and allows recording subjects at a close distance down to about 38 cm (15 in.).



### Notes

- When recording a distant subject, focusing may be difficult and can take some time.
- Adjust the focus manually ([FOCUS], p. 61) when it is hard to focus automatically.

# SHOOTING SET

## (Items for customized shooting)

See “Using menus” (p. 53) on the operation.
The default settings are marked with ▶.

### REC MODE (Recording mode)

See page 25.

### GUIDEFRAME

You can display the frame and check that the subject is horizontal or vertical.
The frame is not recorded.

▶ OFF
Does not display the guide frame.

ON
Displays the guide frame.



Tips
- Positioning the subject at the cross point of the guide frame makes a balanced composition.
- The outer frame of [GUIDEFRAME] shows the display area of a TV which is not compatible with full pixel display.

### STEADYSHOT

You can compensate for camera shake.
Set [STEADYSHOT] to [OFF] when using a tripod (sold separately), then the image becomes natural.

▶ ON
The SteadyShot function is used.

OFF
The SteadyShot function is not used.

### AUTO SLW SHUTTR (Auto Slow Shutter)

When recording in dark places, the shutter speed is automatically reduced to 1/30 second.

▶ OFF
The Auto Slow Shutter function is not used.

ON
The Auto Slow Shutter function is used.

### FACE DETECTION

Detects the faces of your subjects and adjusts the exposure automatically.

▶ ON
Detects faces.

OFF
Does not detect faces.

Notes
- Faces may not be detected depending on recording conditions, subject conditions, and the setting of your camcorder.
- [FACE DETECTION] may not function properly depending on recording conditions. Set [FACE DETECTION] to [OFF] in this case.

Tips
- For better face detection performance, shoot the subject(s) under the following conditions:
  – Shoot in a sufficiently bright place
  – The subject(s) does not wear glasses, a hat or mask
  – The subject(s) faces directly towards the camera
- The detected faces are recorded in Face Index, however, some faces may not be. Also, there is a limit to the number of faces that can be

recorded in Face Index. To play back from the Face Index, see page 31.

## AUDIO REC SET

### ■ BLT-IN ZOOM MIC (Built-in zoom microphone)

You can record a movie with vivid sound appropriate to the zoom position.

▶ OFF
The microphone does not record sound following zooming in or out.

ON (📶)
The microphone records sound following zooming in or out.

### ■ MICREF LEVEL (Microphone reference level)

You can select the microphone level for recording sound.

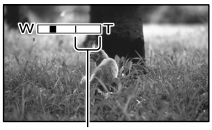
▶ NORMAL
Records various ambient sounds, converting them into the appropriate level.

LOW (🎙↓)
Records ambient sound faithfully. Select [LOW] when you want to record an exciting and powerful sound in a concert hall, etc. (This setting is not suitable for recording conversations.)

## OTHER REC SET

### ■ DIGITAL ZOOM

You can select the maximum zoom level up to 60× in case you want to zoom to a level greater than following optical zoom during recording. Note that the image quality decreases when you use the digital zoom.




The right side of the bar shows the digital zooming factor. The zooming zone appears when you select the zooming level.

▶ OFF
Up to 60× zoom is performed optically.

2000×
Up to 60× zoom is performed optically, and after that, up to 2000× zoom is performed digitally.

### ■ WIDE SELECT

You can select the horizontal to vertical ratio according to the TV connected. Refer also to the instruction manuals supplied with your TV.

▶ 16:9 WIDE
Records movies to the full screen on a 16:9 (wide) TV screen.

4:3 (4:3)
Records movies to the full screen on a 4:3 TV screen.

Notes
- Set [TV TYPE] correctly according to the TV connected for playback (p. 69).

# PHOTO SETTINGS

## (Items for recording photos)

See “Using menus” (p. 53) on the operation.
The default settings are marked with ▶.

### SELF-TIMER

Press PHOTO to start the count down. A photo is recorded after about 10 seconds.

▶ OFF
Cancels the self-timer.

ON (⏲)
Starts the self-timer recording. To cancel the recording, touch [RESET].

### IMAGE SIZE

You can select a photo size to be shot.

▶ VGA(0.3M) (VGA)
Records photos in the 4:3 aspect ratio (640 × 480).

0.2M (0.2M)
Records photos in the 16:9 (wide) aspect ratio (640 × 360).

Notes
- See page 81 for the number of recordable photos.

### FILE NO. (File number)

You can select the way to assign file number of photos.

▶ SERIES
Assigns file numbers of photos in sequence. The file number becomes larger each time you record a photo.
Even if the memory card is replaced with another one, the file number is assigned in sequence.

RESET
Assigns file numbers in sequence, following the largest file number existing on the recording medium.
When the memory card is replaced with another one, the file number is assigned for each memory card.

# PLAYBACK

## (Items for playback)

See “Using menus” (p. 53) on the operation.

### VISUAL INDEX

See page 27.

### VIEW IMAGES

■ DATE INDEX

See page 30.

■ FILM ROLL

See page 30.

■ FACE

See page 31.

### PLAYLIST

See page 43.

### PLAYBACK SET

■ DATA CODE

During playback, your camcorder displays the information (Date/time, Camera data) recorded automatically at the time of recording.

▶ OFF

Data code is not displayed.

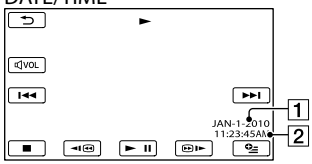
DATE/TIME

Displays the date and time.

CAMERA DATA

Displays camera setting data.

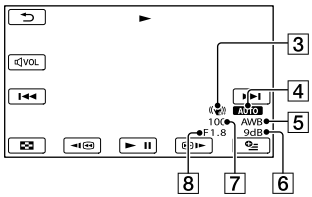
DATE/TIME



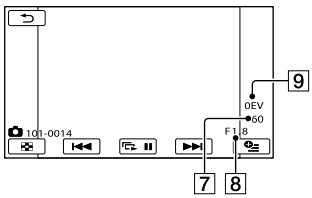

1 Date
2 Time

CAMERA DATA

Movie




Photo




3 SteadyShot off
4 Brightness
5 White balance
6 Gain
7 Shutter speed
8 Aperture value
9 Exposure

Tips

- The data code is displayed on the TV screen if you connect your camcorder to a TV.
- Depending on the recording media condition, bars [--:--:--] appear.

## EDIT
(Items for editing)

See “Using menus” (p. 53) on the operation.

### DELETE

See page 36.

### PROTECT

See page 38.

### DIVIDE

See page 39.

### PHOTO CAPTURE

See page 40.

### MOVIE DUB (DCR-SR68/SR88/SX44/SX63)

See page 41.

### PHOTO COPY (DCR-SR68/SR88/SX44/SX63)

See page 42.

### PLAYLIST EDIT

See page 43.

## OTHERS
(Items for other settings)

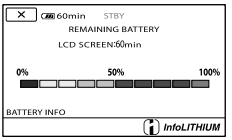
See “Using menus” (p. 53) on the operation. The default settings are marked with ▶.

### USB CONNECT

See page 49.

### BATTERY INFO

You can check the estimated remaining capacity of the battery.




To close the battery information screen

Touch .

# MANAGE MEDIA

## (Items for recording media)

See “Using menus” (p. 53) on the operation.

### MEDIA SETTINGS (DCR-SR68/SR88/SX44/SX63)

See page 17.

### MEDIA INFO

You can check the remaining recordable time for each recording mode of the recording media for movies and the approximate free and used media space of the recording media.

#### To turn off the display

Touch [×].

**Notes**

- Since there is a management file area, the used space is not displayed as 0 % even if you perform [MEDIA FORMAT] (p. 67).

**Tips**

- Only the information of the medium selected on [MOVIE MEDIA SET] (p. 17) is displayed. Change the medium setting if necessary (DCR-SR68/SR88/SX44/SX63).

### MEDIA FORMAT

Formatting deletes all the movies and photos to recover recordable free space.
Touch [YES] → [YES] → [OK].
DCR-SR68/SR88/SX44/SX63:
Select the recording media to be formatted.

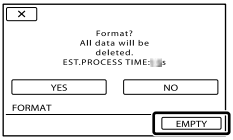
**Notes**

- Connect your camcorder to the wall outlet (wall socket) using AC Adaptor supplied for this operation (p. 13).
- To avoid the loss of important images, you should save them before formatting the recording media.
- Protected movies and photos will also be deleted.
- While [Executing…] is displayed, do not close the LCD screen, operate the buttons on the camcorder, disconnect the AC Adaptor, or eject the memory card from your camcorder (The access lamp is lit or flashing while formatting memory card.).

#### To prevent data on the internal recording media from being recovered (DCR-SR68/SR88/SX44/SX63)

[EMPTY] allows you to write unintelligible data onto the internal recording media of the camcorder. In this way it may become more difficult to recover any original data. When you dispose of or transfer the camcorder, it is recommended that you perform [EMPTY].

When the internal recording media is selected on the [MEDIA FORMAT] screen, touch [EMPTY].




**Notes**

- Connect the AC Adaptor to the wall outlet (wall socket). You cannot perform [EMPTY] unless you connect the AC Adaptor to the wall outlet (wall socket).
- To avoid the loss of important images, they should be saved on a computer or other devices before performing [EMPTY].
- Disconnect all cables except the AC Adaptor. Do not disconnect the AC Adaptor during the operation.
- While deleting data, do not apply any vibrations or shocks to your camcorder.

- The actual performing time for deleting data is as follows;
  – DCR-SX44: about 13 minutes
  – DCR-SX63: about 60 minutes
  – DCR-SR68: about 40 minutes
  – DCR-SR88: about 60 minutes
- If you stop performing [EMPTY] while [Executing…] appears, be sure to complete the operation by performing [MEDIA FORMAT] or [EMPTY] when you use the camcorder next time.

## REPAIR IMG.DB F.

See page 75, 77.

# GENERAL SET

## (Other setup items)

See "Using menus" (p. 53) on the operation.
The default settings are marked with ▶.

## SOUND/DISP SET

### ■ VOLUME

You can adjust the volume of playback sound by touching − / +.

### ■ BEEP

▶ ON
A melody sounds when you start/stop recording, or operate the touch panel.

OFF
Cancels the melody.

### ■ LCD BRIGHT

You can adjust the brightness of the LCD screen by touching − / +.

Tips
- This adjustment does not affect the recorded images in any way.

### ■ LCD BL LEVEL (LCD backlight level)

You can select the brightness of the LCD screen's backlight.

▶ NORMAL
Standard brightness.

BRIGHT
Brightens the LCD screen.

Notes
- When you connect your camcorder to the wall outlet (wall socket) using the supplied AC Adaptor, [BRIGHT] is automatically selected for the setting.
- When you select [BRIGHT], battery life is slightly reduced during recording.
- If you open the LCD panel 180 degrees to face the screen outside and close the LCD panel

to the camcorder body, the setting becomes [NORMAL] automatically.

Tips
- This adjustment does not affect the recorded images in any way.

### ■ LCD COLOR

You can adjust the color of the LCD screen by touching − / +.

Tips
- This adjustment does not affect the recorded images in any way.

### ■ DISPLAY SET

You can set the duration of displaying the icons or indicators on the LCD screen.

▶ AUTO1
Displays for about 3 seconds. The rec & zoom buttons on the LCD is displayed.

AUTO2
Displays for about 3 seconds. The rec & zoom buttons on the LCD is not displayed.

ON
Always displays. The rec & zoom buttons on the LCD is not displayed.

Tips
- The icons or indicators are displayed in the following cases.
  – When you turn on your camcorder.
  – The LCD screen is touched (Except rec & zoom buttons on LCD).
  – When you switch your camcorder to the movie recording, photo recording, or playback modes.

## OUTPUT SETTINGS

### ■ TV TYPE

See page 33.

### ■ DISP OUTPUT (Display output)

You can set where the screen displays are to be output.

▶ LCD PANEL
Shows displays such as the time code on the LCD screen.

V-OUT/PANEL
Shows displays such as the time code on the LCD screen, and on the TV screen.

## CLOCK/LANG

### ■ CLOCK SET

See page 15.

### ■ AREA SET

You can adjust a time difference without stopping the clock. Set your local area when using your camcorder in other time zones. Refer to the world time difference on page 84.

### ■ DST SET/SUMMERTIME

You can change this setting without stopping the clock. Set to [ON] to move the time forward 1 hour.

▶ OFF
Does not set the DST SET.

ON
Sets the DST SET.

### ■ LANGUAGE SET

You can select the language to be used on the LCD screen.

Tips
- Your camcorder offers [ENG[SIMP]] (simplified English) for when you cannot find your native tongue among the options.

## POWER SETTINGS

### ■ A.SHUT OFF (Auto shut off)

You can set your camcorder to turn off automatically when you do not operate your camcorder for more than about 5 minutes.

▶ 5min
The camcorder turns off automatically.

NEVER
The camcorder does not turn off automatically.

Notes
- When you connect your camcorder to a wall outlet (wall socket), [A.SHUT OFF] is automatically set to [NEVER].

### ■ POWER ON BY LCD

You can set your camcorder to turn on and off when you open and close the LCD screen.

▶ ON
The camcorder turns on and off when the LCD screen opens and closes.

OFF
The camcorder does not turn on and off when the LCD screen opens and closes.

## OTHER SETTINGS

### ■ DEMO MODE

When your camcorder is connected to a wall outlet (wall socket), a demonstration movie appear about 10 minutes after you turn on the (Movie) lamp by pressing MODE.

▶ ON
The demonstration appears.

OFF
The demonstration does not appear.

Tips
- When you set this item to [ON] and touch OK, the demonstration starts playing.
- The demonstration will be suspended:
  – When you press START/STOP
  – When you touch the screen during the demonstration (The demonstration starts again after about 10 minutes)
  – When you turn on the (Photo) lamp
  – When you press (VIEW IMAGES)

### ■ CALIBRATION

See page 89.

### ■ DROP SENSOR (DCR-SR68/SR88)

Your camcorder detects that it is dropping, and protects the internal hard disk.

▶ ON
Activates the drop sensor. When it is detected that the camcorder is dropping, you may not be able to record or play back images correctly, to protect the internal hard disk. When dropping is detected, appears.

OFF ( OFF)
Deactivates the drop sensor.

Notes
- Set the drop sensor to [ON] when you use the camcorder. Otherwise, if you drop the camcorder, you may damage the internal hard disk.
- In a non-gravity situation, the drop sensor activates. When you record images during an activity such as roller-coasting or skydiving, you can set [DROP SENSOR] to [OFF] so as not to activate the drop sensor.

# Troubleshooting

If you run into any problems using your camcorder, follow the steps below.

① Check the list (p. 71 to 79), and inspect your camcorder.

② Disconnect the power source, attach the power source again after about 1 minute, and turn the camcorder on.

③ Press RESET (p. 93, 94) using a pointed object, and turn the camcorder on.
If you press RESET, all settings, including the clock setting, are reset.

④ Contact your Sony dealer or local authorized Sony service facility.

- Your camcorder may be required to initialize or change the current internal recording media of your camcorder, depending on the problem. In the event of this, the data stored on the internal recording media will be deleted. Be sure to save the data on the internal recording media on other media (backup) before sending your camcorder for repair. We will not compensate you for any loss of internal recording media data.
- During repair, we may check a minimum amount of data stored on the internal recording media in order to investigate the problem. However, your Sony dealer will neither copy nor retain your data.


- Overall operations ..... p. 71
- Batteries/power sources ..... p. 72
- LCD screen ..... p. 72
- Memory card ..... p. 73
- Recording ..... p. 73
- Playback ..... p. 74
- Playing back images stored on memory card on other devices ..... p. 75
- Editing movies/photos on your camcorder ..... p. 75
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## Overall operations

### The power does not turn on.

- Attach a charged battery pack to the camcorder (p. 11).
- The plug of the AC Adaptor has been disconnected from the wall outlet (wall socket). Connect it to the wall outlet (wall socket) (p. 11).

### The camcorder does not operate even when the power is set to on.

- It takes a few seconds for your camcorder to be ready to shoot after the power is turned on. This is not a malfunction.
- Disconnect the AC Adaptor from the wall outlet (wall socket) or remove the battery pack, then reconnect it after about 1 minute. If the functions still do not work, press RESET (p. 93, 94) using a pointed object. (If you press RESET, all settings, including the clock setting, are reset.)
- The temperature of your camcorder is extremely high. Turn off your camcorder and leave it for a while in a cool place.
- The temperature of your camcorder is extremely low. Leave your camcorder with the power of your camcorder on. Turn off your camcorder and take it to a warm place. Leave the camcorder there for a while, then turn on your camcorder.

### The menu settings have changed automatically.

- The following menu items return to the default settings in more than 12 hours after you close the LCD screen.
  – [SCENE SELECTION]
  – [WHITE BAL.]

– [SPOT MTR/FCS]
– [SPOT METER]
– [SPOT FOCUS]
– [EXPOSURE]
– [FOCUS]
– [BLT-IN ZOOM MIC]
– [MICREF LEVEL]
– [DROP SENSOR] (DCR-SR68/SR88)
– Backlight

- The following menu items return to the default settings when you switch between movie recording and photo recording and playback modes.
  – [FADER]
  – [TELE MACRO]
  – [SELF-TIMER]

### Your camcorder gets warm.

- Your camcorder may become warm during operation. This is not a malfunction.

## Batteries/power sources

### The power abruptly turns off.

- Use the AC Adaptor.
- In the default setting, when about 5 minutes have elapsed while you do not operate your camcorder, the camcorder is automatically turned off (A.SHUT OFF). Change the setting of [A.SHUT OFF] (p. 70), or turn on the power again.
- Charge the battery pack (p. 11).

### The CHG (charge) lamp does not light while the battery pack is being charged.

- Close the LCD screen (p. 11).
- Attach the battery pack to the camcorder correctly (p. 11).
- Connect the power cord (mains lead) to the wall outlet (wall socket) properly.
- The battery charge is completed (p. 11).

### The CHG (charge) lamp flashes while the battery pack is being charged.

- If the temperature of the battery pack is too high or too low, you may not be able to charge it (p. 86).
- Attach the battery pack to the camcorder correctly (p. 11). If the problem persists, disconnect the AC Adaptor from the wall outlet (wall socket) and contact your Sony dealer. The battery pack may be damaged.

### The remaining battery time indicator does not indicate the correct time.

- The ambient temperature is too high or too low. This is not a malfunction.
- The battery pack has not been charged enough. Fully charge the battery again. If the problem persists, replace the battery pack with a new one (p. 87).
- The indicated time may not be correct depending on the environment of use.

### The battery pack is quickly discharged.

- The ambient temperature is too high or low. This is not a malfunction.
- The battery pack has not been charged enough. Fully charge the battery again. If the problem persists, replace the battery pack with a new one (p. 87).

## LCD screen

### Menu items are grayed out.

- You cannot select grayed items in the current recording/playback situation.
- There are some functions you cannot activate simultaneously (p. 76).

### The buttons do not appear on the touch panel.

- Touch the LCD screen lightly.

### The buttons on the touch panel do not work correctly or do not work at all.

- Adjust the touch panel ([CALIBRATION]) (p. 89).

### The buttons on the touch panel quickly disappear.

- Set [DISPLAY SET] to [ON] (p. 69).

### Dots in lines appear on the LCD screen.

- This is not a malfunction. These dots are not recorded.

## Memory card

### Operations using the memory card cannot be performed.

- If you use the memory card formatted on a computer, format it again on your camcorder (p. 67).

### Images stored on the memory card cannot be deleted.

- The maximum number of images that you can delete on the index screen at one time is 100.
- You cannot delete the protected images.

### The data file name is not indicated correctly or flashes.

- The file is damaged.
- The file format is not supported by your camcorder (p. 86).

## Recording

Refer also to “Memory card” (p. 73).

### Pressing START/STOP or PHOTO does not record images.

- The playback screen is displayed. Press MODE to turn on the (Movie) or (Photo) lamp (p. 15).
- Your camcorder is recording the image you have just shot on the recording media. You cannot make new recording during this period.
- The recording media is full. Delete unnecessary images (p. 36).
- Total number of movie scenes or photos exceeds the recordable capacity of your camcorder (p. 80, 81). Delete unnecessary images (p. 36).
- While [DROP SENSOR] is activated (p. 70), you may not record images (DCR-SR68/SR88).
- The temperature of your camcorder is extremely high. Turn off your camcorder and leave it for a while in a cool place.
- The temperature of your camcorder is extremely low. Turn off your camcorder and take it to a warm place. Leave the camcorder there for a while, then turn on the camcorder.

### Photos cannot be recorded.

- You cannot record photos with [FADER].

### The access lamp remains lit or flashing even if recording was stopped.

- Your camcorder is recording the scene you have just shot on the memory card.

### The imaging field looks different.

- The imaging field may look different depending on the condition of your camcorder. This is not a malfunction.

### The actual recording time for movies is less than the expected recording time of the recording media.

- Depending on the recording conditions, the time available for recording may be shorter, for example when recording a fast moving object, etc. (p. 80).

### The camcorder stops operating.

- The temperature of your camcorder is extremely high. Turn off your camcorder and leave it for a while in a cool place.
- The temperature of your camcorder is extremely low. Turn off your camcorder and take it to a warm place. Leave the camcorder there for a while, then turn on the camcorder.
- If you keep applying vibration on the camcorder, recording may stop.

### There is a time difference between the point when START/STOP is pressed and the point that the recording movie is started or stopped actually.

- On your camcorder, there may be a slight time difference between the point where you press START/STOP and the actual point that recording movie starts/stops. This is not a malfunction.

### The auto focus does not function.

- Set [FOCUS] to [AUTO] (p. 61).
- The recording conditions are not suitable for auto focus. Adjust the focus manually (p. 61).

### SteadyShot does not function.

- Set [STEADYSHOT] to [ON] (p. 62).
- Even if [STEADYSHOT] is set to [ON], your camcorder may not be able to compensate for excessive vibrations.

### A vertical band appears when recording candlelight or electric light in the dark.

- This occurs when the contrast between the subject and the background is too high. This is not a malfunction.

### A vertical white line may appear on an image taken in bright light.

- This phenomenon is called the smear effect. This is not a malfunction.

### Black bands appear when you record a TV screen or computer screen.

- Set [STEADYSHOT] to [OFF] (p. 62).

### Undesirable flicker occurs.

- This occurs when recording images under a fluorescent lamp, sodium lamp, or mercury lamp. This is not a malfunction.

### [LCD BL LEVEL] cannot be adjusted.

- You cannot adjust [LCD BL LEVEL] when:
  – The LCD panel is closed on your camcorder with the LCD screen facing out.
  – The power is supplied from the AC Adaptor.

### Magnification changes when the recording mode is switched.

- You cannot use digital zoom when your camcorder is in the photo recording mode.

## Playback

### Images cannot be played back.

- Select the type of recording media you want to play back (p. 17) (DCR-SR68/SR88/SX44/SX63).
- Images recorded on other devices may not be played back. This is not a malfunction.

### Photos cannot be played back.

- Photos cannot be played back if you have modified files or folders, or have edited the data on a computer. (The file name flashes in that case.) This is not a malfunction.

### ? is indicated on an image on the VISUAL INDEX screen.

- This may appear on an image recorded on other devices, edited on a computer, etc.
- You removed the AC Adaptor or the battery pack while the recording media icon at the top right corner of the screen flashes, or before

the access lamp is turned off after recording. This may damage your image data and ? is displayed.

### is indicated on an image on the VISUAL INDEX screen.

- The image data base file may be damaged. Check the data base file by touching MENU (MENU) → [Show others] → [REPAIR IMG.DB F.] (under [MANAGE MEDIA] category) → the recording medium (DCR-SR68/SR88/SX44/SX63). If it still appears, delete the image with (p. 36).

### No sound or only a quiet sound is heard during playback.

- Turn up the volume (p. 28).
- When you record sound with [MICREF LEVEL] (p. 63) set to [LOW], the recorded sound may be difficult to hear.

## Playing back images stored on memory card on other devices

### Images cannot be played back or the memory card is not recognized.

- The device may not support memory card.

## Editing movies/photos on your camcorder

### Unable to edit.

- Unable to edit because of the condition of the image.

### Movies cannot be added in the Playlist.

- There is no free space in the recording media.
- You can add no more than 99 movies to a Playlist. Erase unnecessary movies from the Playlist (p. 44).
- You cannot add photos in the Playlist.

### A movie cannot be divided.

- A movie that is too short cannot be divided.
- A protected movie cannot be divided.

### A photo cannot be captured from a movie.

- The recording media where you want to save photos is full.

## Dubbing/Connecting to other devices

### You cannot hear the sound on the TV connected to your camcorder.

- When you are using the S VIDEO plug, make sure the red and white plugs of the A/V connecting cable are connected (p. 50).

### The aspect ratio of the playback is not correct when connecting your camcorder to the TV.

- Set [TV TYPE] according to your TV (p. 69).

### The top, bottom, right, and left edges of images are trimmed slightly on a connected TV.

- The LCD screen of your camcorder can display recording images across the entire screen (full pixel display). However, this may cause slight trimming of the top, bottom, right, and left edges of images when played back on a TV which is not compatible with full pixel display.
- It is recommended you record images using the outer frame of [GUIDEFRAME] (p. 62) as a guide.

### Images are not dubbed correctly.

- The A/V connecting cable is not connected properly. Make sure to connect the cable to the input jack of another device (p. 50).

## Connecting to a Computer

### "PMB" cannot be installed.

- Check the computer environment or installation procedure required to install "PMB."

### "PMB" does not work correctly.

- Quit "PMB" and restart your computer.

### The camcorder is not recognized by the computer.

- Disconnect devices from the USB jack of the computer other than the keyboard, mouse, and your camcorder.
- Disconnect the USB cable from the computer and your camcorder, and restart the computer, then connect the computer and your camcorder again in the correct order.

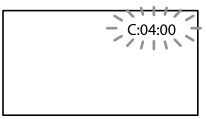
## Examples of functions that cannot be used simultaneously

The following list shows examples of unworkable combinations of functions and menu items.

| Cannot use | Because of following settings |
|---|---|
| Backlight | [SPOT MTR/FCS], [SPOT METER], [MANUAL] in [EXPOSURE], [FIREWORKS] |
| [FACE DETECTION] | [DIGITAL ZOOM], [SPOT MTR/FCS], [SPOT METER], [EXPOSURE], [TWILIGHT], [CANDLE], [SUNRISE&SUNSET], [FIREWORKS], [LANDSCAPE], [SPOTLIGHT], [BEACH], [SNOW] |
| [SCENE SELECTION] | [FADER], [TELE MACRO] |

## Self-diagnosis display/Warning indicators

If indicators appear on the LCD screen, check the following.
If the problem persists even after you have tried to fix a couple of times, contact your Sony dealer or local authorized Sony service facility. In this case, when you contact them, give them all the numbers of the error code beginning with C or E.




### C:(or E:) □□:□□ (Self-diagnosis display)

C:04:□□

- The battery pack is not an "InfoLITHIUM" battery pack (V series). Use an "InfoLITHIUM" battery pack (V series). (p. 86).
- Connect the DC plug of the AC Adaptor to the DC IN jack of your camcorder securely (p. 11).

C:06:□□

- The battery pack temperature is high. Change the battery pack or place it in a cool place.

C:13:□□ / C:32:□□

- Remove the power source. Reconnect it and operate your camcorder again.

E:□□:□□

- Follow the steps from ② to ④ on page 71.

### (Warning on the internal hard disk of the camcorder)

Fast flashing

- The internal hard disk of the camcorder is full.
- An error may have occurred with the internal hard disk of the camcorder.

### (Battery level warning)

Slow flashing
- The battery pack is nearly used up.
- Depending on the operating environment or battery conditions, may flash, even if there are about 20 minutes remaining.

### (Warning indicator pertaining to battery pack temperature)

- The battery pack temperature is high. Change the battery pack or place it in a cool place.

### (High temperature warning)

Slow flashing
- The temperature of your camcorder is getting higher. Turn off your camcorder and leave it for a while in a cool place.

Fast flashing
- The temperature of your camcorder is extremely high. Turn off your camcorder and leave it for a while in a cool place.

### (Low temperature warning)

Fast flashing
- The temperature of your camcorder is extremely low. Make the camcorder warm.

### (Warning indicator pertaining to memory card)

Slow flashing
- Free spaces for recording images are running out. For the type of memory card you can use with your camcorder, see page 18.
- No memory card is inserted (p. 18).

Fast flashing
- There are not enough free spaces for recording images. After storing the images on other media (p. 45), delete unnecessary images, or format the memory card (p. 67).
- The image data base file may be damaged. Check the data base file by touching MENU (MENU) → [Show others] → [REPAIR IMG.DB F.] (under [MANAGE MEDIA] category) → the recording medium (DCR-SR68/SR88/SX44/SX63).
- The memory card is damaged.

### (Warning indicators pertaining to memory card formatting)

- The memory card is damaged.
- The memory card is not formatted correctly (p. 67).

### (Warning indicator pertaining to incompatible memory card)

- Incompatible memory card is inserted (p. 18).

### (Warning indicator pertaining to the write-protect of the memory card)

- Access to the memory card was restricted on another device.

### (Warning indicator pertaining to camera-shake warning)

- The camcorder is unsteady, so camera-shake easily occurs. Hold the camcorder steady with both hands and record the image. However, note that the camera-shake warning indicator does not disappear.

### (Warning indicator pertaining to drop sensor)

- The drop sensor function (p. 70) is activated, and has detected that the camcorder has been dropped. Therefore, the camcorder is taking steps to protect the internal hard disk. Recording/playback may be disabled as a result.
- The drop sensor function does not guarantee the protection of the internal hard disk under all possible situations. Use the camcorder under stable conditions.

### (Warning indicator pertaining to photo recording)

- The recording media is full.

Tips

- You may hear a melody when some warning indicators appear on the screen.

## Description of warning messages

If messages appear on the screen, follow the instructions.

### Recording media

---

Internal memory format error.
HDD format error.

- The internal recording media of the camcorder is set differently from the default format. Performing [MEDIA FORMAT] (p. 67) may enable you to use your camcorder. This will delete all data in the internal recording media.

---

Data error.

- An error occurred during reading or writing the internal recording media of the camcorder.
- This may occur when you keep applying shock on the camcorder.
- Movies recorded on other devices may not be played back.

---

The Image Database File is damaged. Do you want to create a new file?

- The management file is damaged. When you touch [YES], a new management file is created. The old recorded images on the media cannot be played back (Image files are not damaged). If you execute [REPAIR IMG. DB F.] after creating new information, playing back the old recorded images may become possible. If it does not work, copy the image using the supplied software.

---

Inconsistencies found in Image Database File. Do you want to repair the Image Database File?
The Image Database File is damaged. Do you want to repair the Image Database File?

- The management file is damaged, and you cannot record movies or photos. Touch [YES] to repair.
- You can record photos on a memory card.

---

Buffer overflow

- You cannot record because the drop sensor senses a drop of the camcorder repeatedly. If you are at risk of dropping the camcorder constantly, set [DROP SENSOR] to [OFF], and you may be able to record the image again (p. 70).

---

Recovering data.

- Your camcorder tries to recover data automatically if the data writing was not performed properly.

---

Cannot recover data.

- Writing data onto the media of the camcorder has failed. Attempts were made to recover the data, but they were unsuccessful.

---

Reinsert the memory card.

- Reinsert the memory card a few times. If even then the indicator flashes, the memory card could be damaged. Try with another memory card.

---

This memory card is not formatted correctly.

- Format the memory card (p. 67). Note that if you format the memory card, all the recorded movies and photos are deleted.

### Still picture folder is full. Cannot record still pictures.

- You cannot create folders exceeding 999MSDCF. You cannot create or delete created folders using your camcorder.
- Format the memory card (p. 67), or delete folders using your computer.

### This memory card may not be able to record or play movies.

- Use a memory card recommended for your camcorder (p. 18).

### This memory card may not be able to record or play images correctly.

- Use a memory card recommended for your camcorder (p. 18).

### Do not eject the memory card during writing. Data may be damaged.

- Reinsert the memory card, and follow the instructions on the LCD screen.

## Other

### No further selection is possible.

- You can add no more than 99 movies to a Playlist.
- You can select only 100 images at one time for:
  – Deleting movies/photos
  – Protecting movies/photos, or releasing the protection
  – Dubbing movies
  – Copying photos

### Data protected.

- You tried to delete protected data. Release the protection of the data.

# Recording time of movies/number of recordable photos

## Expected time of recording and playback with each battery pack

### Recording time

Approximate time available when you use a fully charged battery pack.

#### DCR-SR68/SR88

(unit: minute)

| Battery pack | Continuous recording time | Typical recording time |
|---|---|---|
| NP-FV30 (supplied) | 100 | 45 |
| NP-FV50 | 190 | 90 |
| NP-FV70 | 395 | 185 |
| NP-FV100 | 785 | 375 |

#### DCR-SX43/SX44/SX63

(unit: minute)

| Battery pack | Continuous recording time | Typical recording time |
|---|---|---|
| NP-FV30 (supplied) | 110 | 50 |
| NP-FV50 | 215 | 100 |
| NP-FV70 | 440 | 210 |
| NP-FV100 | 870 | 415 |

- Each recording time is measured when the [REC MODE] is set to SP.
- Typical recording time shows the time when you repeat recording start/stop, switching the MODE lamp, and zooming.
- Times measured when using the camcorder at 25 °C (77 °F). 10 °C to 30 °C (50 °F to 86 °F) is recommended.
- The recording and playback time will be shorter when you use your camcorder in low temperatures.
- The recording and playback time will be shorter depending on the conditions under which you use your camcorder.

### Playing time

Approximate time available when you use a fully charged battery pack.

#### DCR-SR68/SR88

(unit: minute)

| Battery pack | |
|---|---|
| NP-FV30 (supplied) | 135 |
| NP-FV50 | 255 |
| NP-FV70 | 525 |
| NP-FV100 | 1045 |

#### DCR-SX43/SX44/SX63

(unit: minute)

| Battery pack | |
|---|---|
| NP-FV30 (supplied) | 160 |
| NP-FV50 | 300 |
| NP-FV70 | 610 |
| NP-FV100 | 1205 |

## Expected recording time of movies

### Internal hard disk

### DCR-SR68

(unit: minute)

| Recording mode | Recording time |
|---|---|
| [HQ] | 1220 |
| [SP] | 1750 |
| [LP] | 3660 |

### DCR-SR88

(unit: minute)

| Recording mode | Recording time |
|---|---|
| [HQ] | 1830 |
| [SP] | 2630 |
| [LP] | 5510 |

### Internal memory

### DCR-SX44

(unit: minute)

| Recording mode | Recording time |
|---|---|
| [HQ] | 55 |
| [SP] | 80 |
| [LP] | 175 |

### DCR-SX63

(unit: minute)

| Recording mode | Recording time |
|---|---|
| [HQ] | 235 |
| [SP] | 340 |
| [LP] | 715 |

**Tips**

- You can record movies of a maximum of 9,999 scenes.
- The maximum continuous recording time of movies is approximately 13 hours.
- Your camcorder uses the VBR (Variable Bit Rate) format to automatically adjust image quality to suit the recording scene. This technology causes fluctuations in the recording time of the media. Movies containing quickly moving and complex images are recorded at a higher bit-rate, and this reduces the overall recording time.

### Memory card

(unit: minute)

| | HQ | SP | LP |
|---|---|---|---|
| 512MB | 6 (5) | 9 (5) | 20 (10) |
| 1GB | 10 (10) | 20 (10) | 40 (25) |
| 2GB | 25 (25) | 40 (25) | 85 (55) |
| 4GB | 55 (50) | 80 (50) | 175 (110) |
| 8GB | 115 (105) | 170 (105) | 355 (230) |
| 16GB | 235 (210) | 340 (210) | 715 (465) |
| 32GB | 475 (425) | 685 (425) | 1435 (930) |

**Notes**

- The recordable time may vary depending on the recording and subject conditions, [REC MODE] (p. 62).
- The number in ( ) is the minimum recordable time.

## Expected number of recordable photos

### Internal recording media (DCR-SR68/SR88/SX44/SX63)

You can record the maximum 9,999 photos.

### Memory card

| | VGA(0.3M) VGA |
|---|---|
| 512MB | 2800 |
| 1GB | 5700 |
| 2GB | 11500 |
| 4GB | 23000 |
| 8GB | 47000 |

| | VGA(0.3M) VGA |
|---|---|
| 16GB | 95000 |
| 32GB | 185000 |

- The indicated number of recordable photos on a memory card is based on the maximum image size of your camcorder. The actual number of recordable photos is displayed on the LCD screen during recording (p. 92).
- The maximum number of recordable photos on a memory card may vary depending on the recording conditions.

Tips

- You can also use memory card with a capacity of under 512 MB for recording photos.
- The following list shows the average bit-rate, the recording pixels, and the aspect ratio of each movie recording mode.
  HQ: Approx. 9Mbps 720 × 480 pixels/16:9, 4:3
  SP: Approx. 6Mbps 720 × 480 pixels/16:9, 4:3
  LP: Approx. 3Mbps 720 × 480 pixels/16:9, 4:3
- The photo recording pixels and the aspect ratio.
  – Photo recording mode:
  640 × 480 dots/4:3
  640 × 360 dots/16:9
  – Capturing a photo from a movie:
  640 × 360 dots/16:9
  640 × 480 dots/4:3

# Using your camcorder abroad

## Power supply

You can use your camcorder in any countries/regions using the AC Adaptor supplied with your camcorder within the AC 100 V to 240 V, 50 Hz/60 Hz range.

## On TV color systems

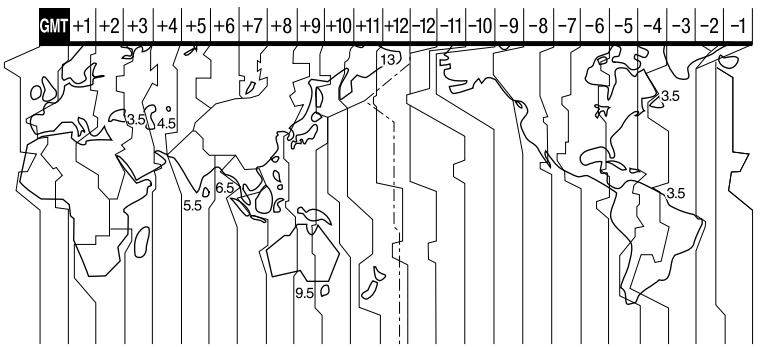
Your camcorder is an NTSC-system-based camcorder. If you want to view the playback image on a TV, it must be an NTSC-system-based TV with an AUDIO/VIDEO input jack.

| System | Used in |
|---|---|
| NTSC | Bahama Islands, Bolivia, Canada, Central America, Chile, Colombia, Ecuador, Guyana, Jamaica, Japan, Korea, Mexico, Peru, Surinam, Taiwan, the Philippines, the USA, Venezuela, etc. |
| PAL | Australia, Austria, Belgium, China, Czech Republic, Denmark, Finland, Germany, Holland, Hong Kong, Hungary, Italy, Kuwait, Malaysia, New Zealand, Norway, Poland, Portugal, Singapore, Slovak Republic, Spain, Sweden, Switzerland, Thailand, United Kingdom, etc. |
| PAL-M | Brazil |
| PAL-N | Argentina, Paraguay, Uruguay |
| SECAM | Bulgaria, France, Guiana, Iran, Iraq, Monaco, Russia, Ukraine, etc. |

## Setting to the local time

You can easily set the clock to the local time by setting a time difference when using your camcorder abroad. Touch MENU (MENU) → [Show others] → [CLOCK/ LANG] (under [GENERAL SET] category) → [AREA SET] and [DST SET]/[SUMMERTIME] (p. 69).

## World time difference




| Time-zone differences | Area setting |
|---|---|
| GMT | Lisbon, London |
| +01:00 | Berlin, Paris |
| +02:00 | Helsinki, Cairo, Istanbul |
| +03:00 | Moscow, Nairobi |
| +03:30 | Tehran |
| +04:00 | Abu Dhabi, Baku |
| +04:30 | Kabul |
| +05:00 | Karachi, Islamabad |
| +05:30 | Calcutta, New Delhi |
| +06:00 | Almaty, Dhaka |
| +06:30 | Yangon |
| +07:00 | Bangkok, Jakarta |
| +08:00 | Hong Kong, Singapore, Beijing |
| +09:00 | Seoul, Tokyo |
| +09:30 | Adelaide, Darwin |
| +10:00 | Melbourne, Sydney |
| +11:00 | Solomon Is |

| Time-zone differences | Area setting |
|---|---|
| +12:00 | Fiji, Wellington, Eniwetok, Kwajalein |
| −11:00 | Samoa |
| −10:00 | Hawaii |
| −09:00 | Alaska |
| −08:00 | Los Angeles, Tijuana |
| −07:00 | Denver, Arizona |
| −06:00 | Chicago, Mexico City |
| −05:00 | New York, Bogota |
| −04:00 | Santiago |
| −03:30 | St.John's |
| −03:00 | Brasilia, Montevideo |
| −02:00 | Fernando de Noronha |
| −01:00 | Azores, Cape Verde Is. |

# Maintenance and precautions

## About the "Memory Stick" media

"Memory Stick" media are a compact, portable IC recording medium with a large data capacity.
You can use only "Memory Stick Duo" media, which are about the half size of standard "Memory Stick" media, with your camcorder.
However, we do not guarantee the operation of all types of "Memory Stick Duo" media on your camcorder.

| Types of "Memory Stick" media | Recording/Playback |
|---|---|
| "Memory Stick Duo" media (with MagicGate) | – |
| "Memory Stick PRO Duo" media | ○ |
| "Memory Stick PRO-HG Duo" media | ○* |

* This product does not support 8-bit parallel data transfer but it supports 4-bit parallel data transfer the same as with "Memory Stick PRO Duo" media.

- This product cannot record or play data that uses "MagicGate" technology. "MagicGate" is a copyright protection technology that records and transfers the contents in an encrypted format.
  This product is compatible with "Memory Stick Micro" media ("M2"). "M2" is the abbreviation for the "Memory Stick Micro" media.
- "Memory Stick PRO Duo" media formatted by a computer (Windows OS/Mac OS) does not have guaranteed compatibility with your camcorder.
- Data read/write speed may vary depending on the combination of the "Memory Stick PRO Duo" media and "Memory Stick PRO Duo" media compliant product you use.
- Damaged or lost data may occur in the following cases (the data will not be compensated for):
  – If you eject the "Memory Stick PRO Duo" media, or turn off your camcorder while your camcorder is reading or writing image files on the "Memory Stick PRO Duo" media (while the access lamp is lit or flashing)
  – If you use the "Memory Stick PRO Duo" media near magnets or magnetic fields
- It is recommended that you make a back-up of important data on the hard disk of a computer.
- Do not attach a label or the like on "Memory Stick PRO Duo" media or "Memory Stick Duo" media adaptor.
- Do not touch, or allow metallic objects to come into contact with the terminals.
- Do not bend, drop or apply strong force to the "Memory Stick PRO Duo" media.
- Do not disassemble or modify the "Memory Stick PRO Duo" media.
- Do not let the "Memory Stick PRO Duo" media get wet.
- Keep the "Memory Stick PRO Duo" media out of the reach of small children. There is danger that a child might swallow it.
- Do not insert anything other than "Memory Stick PRO Duo" media into the "Memory Stick Duo" media slot. Doing so may cause a malfunction.
- Do not use or keep the "Memory Stick PRO Duo" media in the following locations:
  – Places subject to extremely high temperature, such as a car parked outside in the summer
  – Places under direct sunlight
  – Places with extremely high humidity or subject to corrosive gases

### On the "Memory Stick Duo" media adaptor

- When using "Memory Stick PRO Duo" media with "Memory Stick" media compliant device, be sure to insert the "Memory Stick PRO Duo" media into "Memory Stick Duo" media adaptor.
- When using "Memory Stick PRO Duo" media with "Memory Stick" media compliant device inserting "Memory Stick PRO Duo" media

into "Memory Stick Duo" media adaptor, make sure the "Memory Stick PRO Duo" media are inserted facing in the correct direction. Note that improper use may cause a malfunction.
- When using "Memory Stick PRO Duo" media inserted into "Memory Stick Duo" media adaptor on "Memory Stick" media compliant device, make sure the "Memory Stick PRO Duo" media adaptor is inserted into the device in the correct direction. If inserted in the wrong direction, the device may be damaged.
- Do not insert "Memory Stick Duo" media adaptor without "Memory Stick PRO Duo" media attached into "Memory Stick" media compliant device. Doing so may result in malfunctions of the device.

### Notes on using the "Memory Stick Micro" media

- To use "Memory Stick Micro" media with your camcorder, you need a Duo-sized M2 adaptor. Insert the "Memory Stick Micro" media into the Duo-sized M2 adaptor, and then insert the adaptor into the "Memory Stick Duo" media slot.
  If you insert a "Memory Stick Micro" media into your camcorder without using the Duo-sized M2 adaptor, you might not be able to remove it from your camcorder.
- Do not leave the "Memory Stick Micro" media within the reach of small children. They might accidentally swallow it.

### On image data compatibility

- Image data files recorded on "Memory Stick PRO Duo" media by your camcorder conform to the "Design rule for Camera File system" universal standard established by the JEITA (Japan Electronics and Information Technology Industries Association).
- On your camcorder, you cannot play back photos recorded on other devices (DCR-TRV900 or DSC-D700/D770) that do not conform to the universal standard. (These models are not sold in some regions.)
- If you cannot use "Memory Stick PRO Duo" media that have been used with another device, format it with your camcorder (p. 67). Note that formatting erases all information on the "Memory Stick PRO Duo" media.
- You may not be able to play back images with your camcorder:
  – When playing back image data modified on your computer
  – When playing back image data recorded with other devices

## About the "InfoLITHIUM" battery pack

Your camcorder operates only with an "InfoLITHIUM" V series battery packs. "InfoLITHIUM" V series battery packs have the  mark.

### What is an "InfoLITHIUM" battery pack?

- An "InfoLITHIUM" battery pack is a lithium-ion battery pack that has functions for communicating information related to operating conditions between your camcorder and an AC Adaptor/charger (sold separately).
- The "InfoLITHIUM" battery pack calculates the power consumption according to the operating conditions of your camcorder, and displays the remaining battery time in minutes.

### To charge the battery pack

- Be sure to charge the battery pack before you start using your camcorder.
- We recommend charging the battery pack in an ambient temperature of between 10 °C to 30 °C (50 °F to 86 °F) until the CHG (charge) lamp turns off. If you charge the battery pack outside of this temperature range, you may not be able to charge it efficiently.

## To use the battery pack effectively

- Battery pack performance decreases when the ambient temperature is 10 °C (50 °F) or below, and the length of time you can use the battery pack becomes shorter. In that case, do one of the following to use the battery pack for a longer time.
  – Put the battery pack in a pocket to warm it up, and install it on your camcorder right before you start taking shots.
  – Use a large capacity battery pack: NP-FV70/NP-FV100 (sold separately).
- Frequent use of the LCD screen or a frequent playback, fast forward or reverse operation wears out the battery pack faster. We recommend using a large capacity battery pack: NP-FV70/NP-FV100 (sold separately).
- Be sure to close the LCD screen when not recording or playing back on your camcorder. The battery pack is also consumed when your camcorder is in recording standby or playback pause.
- Have spare battery packs ready for 2 or 3 times the expected recording time, and make trial recordings before making the actual recording.
- Do not expose the battery pack to water. The battery pack is not water resistant.

## About the remaining battery time indicator

- When the power goes off even though the remaining battery time indicator indicates that the battery pack has enough power to operate, charge the battery pack fully again. Remaining battery time will be indicated correctly. Note, however, that the battery indication will not be restored if it is used in high temperatures for a long time, or if left in a fully charged state, or when the battery pack is frequently used. Use the remaining battery time indication as a rough guide only.
- The mark that indicates low battery flashes even if there are still 20 minutes of battery time remaining, depending on the operating conditions or ambient temperature.

## About storage of the battery pack

- If the battery pack is not used for a long time, fully charge the battery pack and use it up on your camcorder once a year to maintain proper function. To store the battery pack, remove it from your camcorder and put it in a dry, cool place.
- To discharge the battery pack on your camcorder completely, touch MENU (MENU) → [Show others] → [POWER SETTINGS] (under [GENERAL SET] category) → [A.SHUT OFF] → [NEVER], and leave your camcorder in recording standby until the power goes off (p. 70).

## About battery life

- Battery capacity decreases over time and through repeated use. If decreased usage time between charges becomes significant, it is probably time to replace it with a new one.
- Each battery's life is governed by storage, operating and environmental conditions.

# About handling of your camcorder

## On use and care

- Do not use or store the camcorder and accessories in the following locations:
  – Anywhere extremely hot, cold or humid. Never leave them exposed to temperatures above 60 °C (140 °F), such as under direct sunlight, near heaters or in a car parked in the sun. They may malfunction or become deformed.
  – Near strong magnetic fields or mechanical vibration. The camcorder may malfunction.
  – Near strong radio waves or radiation. The camcorder may not be able to record properly.
  – Near AM receivers and video equipment. Noise may occur.
  – On a sandy beach or anywhere dusty. If sand or dust gets in your camcorder, it may malfunction. Sometimes this malfunction cannot be repaired.
  – Near windows or outdoors, where the LCD screen, or the lens may be exposed to direct sunlight. This damages the LCD screen.

- Operate your camcorder on DC 6.8 V/7.2 V (battery pack) or DC 8.4 V (AC Adaptor).
- For DC or AC operation, use the accessories recommended in these operating instructions.
- Do not let your camcorder get wet, for example, from rain or sea water. If your camcorder gets wet, it may malfunction. Sometimes this malfunction cannot be repaired.
- If any solid object or liquid gets inside the casing, unplug your camcorder and have it checked by a Sony dealer before operating it any further.
- Avoid rough handling, disassembling, modifying, physical shock, or impact such as hammering, dropping or stepping on the product. Be particularly careful of the lens.
- Keep the LCD screen closed when you are not using your camcorder.
- Do not wrap your camcorder with a towel, for example, and operate it. Doing so might cause heat to build up inside.
- When disconnecting the power cord (mains lead), pull it by the plug and not the cord.
- Do not damage the power cord (mains lead) such as by placing anything heavy on it.
- Do not use a deformed or damaged battery pack.
- Keep metal contacts clean.
- If the battery electrolytic liquid has leaked:
  – Consult your local authorized Sony service facility.
  – Wash off any liquid that may have contacted your skin.
  – If any liquid gets in your eyes, wash with plenty of water and consult a doctor.

## When not using your camcorder for a long time

- To keep your camcorder in optimum state for a long time, turn it on and let it run by recording and playing back images about once a month.
- Use up the battery pack completely before storing it.

## Moisture condensation

If your camcorder is brought directly from a cold place to a warm place, moisture may condense inside your camcorder. This may cause a malfunction to your camcorder.

- If moisture condensation has occurred
  Leave your camcorder for about 1 hour without turning it on.
- Note on moisture condensation
  Moisture may condense when you bring your camcorder from a cold place into a warm place (or vice versa) or when you use your camcorder in a humid place as follows:
  – You bring your camcorder from a ski slope into a place warmed up by a heating device.
  – You bring your camcorder from an air conditioned car or room into a hot place outside.
  – You use your camcorder after a squall or a shower.
  – You use your camcorder in a hot and humid place.
- How to prevent moisture condensation
  When you bring your camcorder from a cold place into a warm place, put your camcorder in a plastic bag and seal it tightly. Remove the bag when the air temperature inside the plastic bag has reached the surrounding temperature (after about 1 hour).

## LCD screen

- Do not exert excessive pressure on the LCD screen, as it may cause uneven color and other damage.
- If your camcorder is used in a cold place, a residual image may appear on the LCD screen. This is not a malfunction.
- While using your camcorder, the back of the LCD screen may heat up. This is not a malfunction.

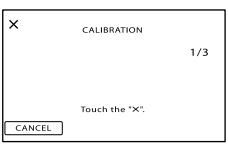
## To clean the LCD screen

- If fingerprints or dust make the LCD screen dirty, it is recommended that you use a soft cloth to clean it.
- When you use the LCD Cleaning Kit (sold separately), do not apply the cleaning liquid directly to the LCD screen. Use cleaning paper moistened with the liquid.

## On adjustment of the touch panel (CALIBRATION)

The buttons on the touch panel may not work correctly. If this happens, follow the procedure below. It is recommended that you connect your camcorder to the wall outlet (wall socket) using the supplied AC Adaptor during the operation.

① MENU (MENU) → [Show others] → [OTHER SETTINGS] (under [GENERAL SET] category) → [CALIBRATION].




② Touch "×" displayed on the screen with the corner of memory card or the like 3 times. Touch [CANCEL] to cancel calibration.

### Notes

- If you did not press the right spot, try the calibration again.
- Do not use a sharp-pointed object for calibration. Doing so may damage the LCD screen.
- You cannot calibrate the LCD screen if it is rotated, or closed with the screen facing out.

## On handling the casing

- If the casing is soiled, clean the camcorder body with a soft cloth lightly moistened with water, and then wipe the casing with a dry soft cloth.
- Avoid the following to avoid damage to the finish:
  - Using chemicals such as thinner, benzine, alcohol, chemical cloths, repellent, insecticide and sunscreen
  - Handling the camcorder with above substances on your hands
  - Leaving the casing in contact with rubber or vinyl objects for a long period of time

## About care and storage of the lens

- Wipe the surface of the lens clean with a soft cloth in the following instances:
  - When there are fingerprints on the lens surface
  - In hot or humid locations
  - When the lens is exposed to salty air such as at the seaside
- Store in a well-ventilated location subject to little dirt or dust.
- To prevent mold, periodically clean the lens as described above.

## On charging the pre-installed rechargeable battery

Your camcorder has a pre-installed rechargeable battery to retain the date, time, and other settings even when the LCD screen is closed. The pre-installed rechargeable battery is always charged while your camcorder is connected to the wall outlet (wall socket) via the AC Adaptor or while the battery pack is attached. The rechargeable battery will be fully discharged in about 3 months if you do not use your camcorder at all. Use your camcorder after charging the pre-installed rechargeable battery.

However, even if the pre-installed rechargeable battery is not charged, the camcorder operation will not be affected as long as you are not recording the date.

## How to charge the pre-installed rechargeable battery

Connect your camcorder to a wall outlet (wall socket) using the supplied AC Adaptor, and leave it with the LCD screen closed for more than 24 hours.

## Note on disposal/transfer (DCR-SR68/SR88/SX44/SX63)

Even if you perform [DELETE ALL], [DELETE ALL] or [MEDIA FORMAT] (p. 67) or formatting the media of the camcorder, you may not delete data from the media completely. When you transfer the camcorder, it is recommended that you perform [EMPTY] (p. 67) to prevent the recovery of your data. Also, when you dispose of the camcorder, it is recommended that you destroy the actual body of the camcorder.

## Note on disposal/transfer of the memory card

Even if you delete data in the memory card or format the memory card on your camcorder or a computer, you may not delete data from the memory card completely. When you give the memory card to somebody, it is recommended that you delete date completely using data deletion software on a computer. Also, when you dispose of the memory card, it is recommended that you destroy the actual body of the memory card.

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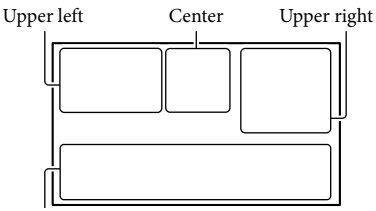
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Source code is provided on the web. Use the following URL to download it. When downloading the source code, select DCR-SX43 as the model for your camcorder.
http://www.sony.net/Products/Linux/
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Read "license2.pdf" in the "License" folder on the CD-ROM. You will find licenses (in English) of "GPL," and "LGPL" software.

To view the PDF, Adobe Reader is needed. If it is not installed on your computer, you can download it from the Adobe Systems web page:
http://www.adobe.com/

# Screen indicators




## Upper left

| Indicator | Meaning |
|---|---|
| MENU | MENU button (53) |
| | Self-timer recording (64) |
| | MICREF LEVEL low (63) |
| 4:3 | WIDE SELECT (63) |
| | BLT-IN ZOOM MIC (63) |
| 60 min | Remaining battery |
| 101 | Recording folder of memory card |
| | VIDEO LIGHT (26) |
| | Return button (53) |

## Center

| Indicator | Meaning |
|---|---|
| [STBY]/[REC] | Recording status (22) |
| VGA 0.2M | Photo size (64) |
| | Slide show set (32) |
| | Warning (76) |
| | Playback mode (28) |

## Upper right

| Indicator | Meaning |
|---|---|
| HQ SP LP | Recording mode (HQ/SP/LP) (25) |
| | Recording/playback/editing media (17) |
| 0:00:00 | Counter (hour:minute:second) (28) |
| [00min] | Estimated recording remaining time (22) |
| WHITE BLACK FADER FADER | FADER (58) |
| OFF | Drop sensor off (70) |
| | Drop sensor activated (70) |
| 9999<br>9999<br>9999 | Approximate number of recordable photos and recording media (23, 81) |
| 101 | Playback folder of memory card (29) |
| 100/112 | Current playing movie or photo/Number of total recorded movies or photos (28, 81) |

## Bottom

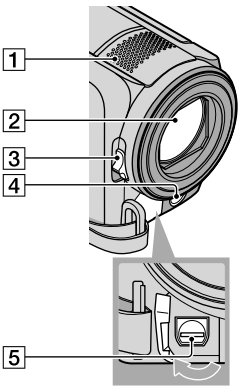
| Indicator | Meaning |
|---|---|
| OFF | [FACE DETECTION] set to [OFF] (62) |
| | Manual focus (61) |
| | SCENE SELECTION (58) |
| | White balance (59) |
| OFF | SteadyShot off (62) |
| | SPOT MTR/FCS (60)/ SPOT METER (60)/ EXPOSURE (60) |
| T | TELE MACRO (61) |
| | Backlight |
| | OPTION button (55) |
| | VIEW IMAGES button (27) |
| | Slide show button (32) |
| 101-0005 | Data file name (29) |
| | Protected image (38) |
| | Index button (29) |

- Indicators and their positions are approximate and may differ from what you actually see.
- Some indicators may not appear, depending on your camcorder model.

# Parts and controls

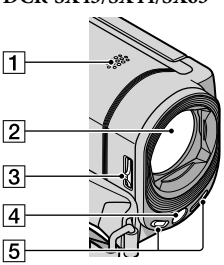
Figures in ( ) are reference pages.

**DCR-SR68/SR88**

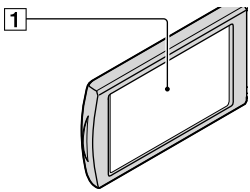



1 Built-in microphone
2 Lens (Carl Zeiss lens)
3 LENS COVER switch
4 LED VIDEO LIGHT (26)
5 A/V Remote Connector (33)

**DCR-SX43/SX44/SX63**

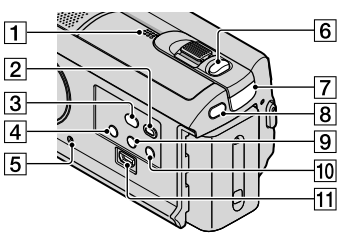



1 Speaker
2 Lens (Carl Zeiss lens)
3 LENS COVER switch
4 LED VIDEO LIGHT (26)
5 Built-in microphone



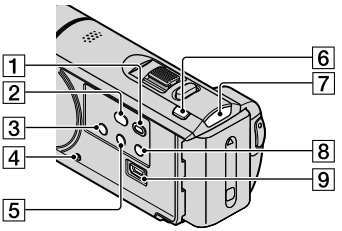

1 LCD screen/Touch panel (26, 53)
If you rotate the LCD panel 180 degrees, you can close the LCD panel with the LCD screen facing out. This is convenient during playback operations.

**DCR-SR68/SR88**




1 Speaker
2 ▶ (VIEW IMAGES) button (27)
3 (DISC BURN) button (see Operating Guide)
4 POWER button (15)
5 RESET button
Press RESET using a pointed object.
Press RESET to initialize all the settings including the clock setting.
6 PHOTO button (24)
7 (movie)/📷 (photo) lamp (21)
8 MODE button (21)
9 (Backlight) button (26)
10 LIGHT button (26)
Press to light up the LIGHT.
11 (USB) jack (49)

**DCR-SX43/SX44/SX63**




1 ▶ (VIEW IMAGES) button (27)

2 (DISC BURN) button (see Operating Guide)

3 POWER button (15)

4 RESET button

Press RESET using a pointed object.

Press RESET to initialize all the settings including the clock setting.

5 (Backlight) button (26)

6 MODE button (21)

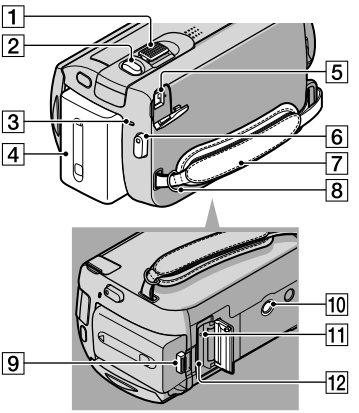
7 (movie)/📷 (photo) lamp (21)

8 LIGHT button (26)

Press to light up the LIGHT.

9 ψ (USB) jack (49)

**DCR-SR68/SR88**




1 Power zoom lever (25, 31)

2 PHOTO button (24)

3 CHG (charge) lamp (11)

4 Battery pack (11)

5 DC IN jack (11)

6 START/STOP button (22)

7 Grip belt (20)

8 Hook for a shoulder belt

9 BATT (battery) release lever (13)

10 Tripod receptacle

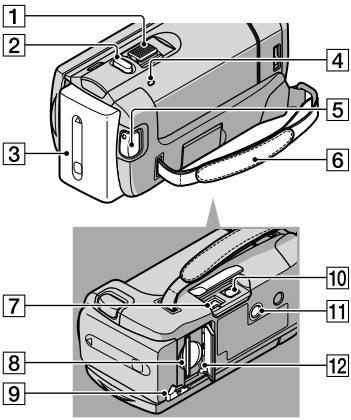
Attach a tripod (sold separately) to the tripod receptacle using a tripod screw (sold separately: the length of the screw must be less than 5.5 mm (7/32 in.)).

11 Access lamp (memory card) (18)

While the lamp is lit or flashing, the camcorder is reading or writing data.

12 Memory card slot (18)

**DCR-SX43/SX44/SX63**




1 Power zoom lever (25, 31)
2 PHOTO button (24)
3 Battery pack (11)
4 CHG (charge) lamp (11)
5 START/STOP button (22)
6 Grip belt (20)
7 DC IN jack (11)
8 Memory card slot (18)
9 BATT (battery) release lever (13)
10 A/V Remote Connector (33)
11 Tripod receptacle
Attach a tripod (sold separately) to the tripod receptacle using a tripod screw (sold separately: the length of the screw must be less than 5.5 mm (7/32 in.)).
12 Access lamp (memory card) (18)
While the lamp is lit or flashing, the camcorder is reading or writing data.

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